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COUNTY BOROUGH OF BLACKBURN



EDUCATION COMMITTEE

# ANNUAL REPORT

UPON THE

## SCHOOL MEDICAL SERVICE

For the Year 1937

BY

V. T. THIERENS

M.B., Ch.B. D.P.H.  
School Medical Officer



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# MEMBERS OF THE EDUCATION COMMITTEE,

December, 1937.

\*†Alderman Sir William Forrest, O.B.E., J.P. (Chairman).

\*†Councillor Sugden, J.P. (Vice-Chairman).

Alderman Bates, J.P.	†*Mr. J. R. Grocott.
* „ Culshaw.	*The Very Rev. Provost Kay, D.S.O., M.C., M.A.
†* „ Critchley, J.P.	
†* „ Holden, J.P.	*†Rev. Canon J. E. Samuel, M.A. (Chairman School Attendance Reference Sub-Committee).
* „ Watson, J.P.	
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†* „ Dowdall.	*The Very Rev. Dean Moylan.
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„ Holden.	†*Miss K. Pullon.
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„ E. Woolley.	
* „ W. E. Woolley.	
†* „ Worden.	

\* Elementary Education Sub-Committee.

† School Attendance Sub-Committee.

# STAFF OF THE SCHOOL MEDICAL SERVICE.

## *Medical Officer of Health and School Medical Officer:*

V. T. THIERENS, M.B., Ch.B., D.P.H.

## *Assistant School Medical Officers:*

E. D. IRVINE, M.D., D.P.H. (left June, 1937).

J. F. WARIN, M.D., M.B., Ch.B., D.P.H. (commenced 1/9/37).

DOROTHEA I. BAIRD, M.B., Ch.B., D.P.H.

J. B. TILLEY, M.D., B.Hy., D.P.H.

S. THOMSON, M.B., Ch.B., M.M.S.A., D.P.H.

## *School Dentists:*

HARRY YATES, L.D.S. (Senior).

K. T. ADAMSON, L.D.S.

J. RIGBY, L.D.S. (commenced 1/1/37).

## *Ophthalmic Surgeon (part time):*

J. M. WISHART, M.B., Ch.B., F.R.C.S. (Edin.).

## *Orthopaedic Surgeon (part time):*

W. BRIGGS, M.B., B.S.

## *Radiologist (part time):*

J. A. SELLARS, M.B., B.Ch., B.A.O.

## *School Nurses:*

A. MORAN, A. STEAD, J. HACKING, E. KELLY, I. WALSH.

F. E. HARRIS, (part-time School Nurse and Health Visitor)

## *Remedial Gymnast:*

MARGERY C. RANDALL, C.S.M.M.G.

## *Dental Attendants:*

M. TOTTY, G. M. PELLMAN, G. BOOTH.

## *Orthoptist:*

BRENDA VALERIE MCKENZIE.

## SCHOOL CLINICS.

NAME.	PURPOSE.	WHERE HELD.	TIMES.
Inspection Clinic.	Special Examination of Cases Referred by Teachers, School Attendance Officers and School Nurses.	68, Victoria Street.	Wednesdays, 2 p.m.; Saturdays, 9-30 a.m.
Ophthalmic Clinic.	Prescription of Spectacles.	68, Victoria Street.	Mondays, 2-15 p.m. Fridays, 2-15 p.m.
Dental Clinic.	Dental Treatment.	„	Every week-day (by appointment).
Minor Ailments Clinic.	Treatment of Minor Diseases of Skin, etc.	68, Victoria Street.	Every week-day, at 8-45 a.m.
„	„	All Saints School, Bolton Road.	Mon., Tues., Thurs. & Fri. at 2-0 p.m.; Wed. & Sat., 9-0 a.m.
Cleansing Station.	Treatment of Scabies and Cleansing of Verminous Cases.	Throstle Street.	Tuesdays & Thursdays (by appointment).
Throat Clinic.	Operative Treatment of Adenoids and Enlarged Tonsils.	Blackburn & East Lancs. R. Infirmary	Arranged as required.
„	„	Queen's Pk. Hospital.	Arranged as required.
Remedial Exercises.	Treatment of Deformities.	68, Victoria Street.	Every week-day (by appointment).
Diphtheria Immunisation Clinic.	Prevention of Diphtheria.	68, Victoria Street.	Mondays, 4-5-30 p.m.
Ringworm Clinic	Treatment of Ringworm.	68, Victoria Street.	Tuesday, 4 p.m.
Ultra Violet Light Clinic.	Artificial Light Treatment.	„	Every week-day (by appointment).
„	„	Corporation Hospital.	Mondays, Tuesdays, Thursdays & Fridays at 2 p.m.
Consultant Aural Clinic.	Treatment of Deafness, etc.	68, Victoria Street.	As required.
Orthoptic Clinic	Correction of Strabismus.	68, Victoria Street.	Wednesday, Thursday, Friday and Saturday by appointment.



PUBLIC HEALTH OFFICE,  
VICTORIA STREET,  
February, 1938.

*The Chairman and Members of the Education Committee.*

MR. CHAIRMAN, LADIES AND GENTLEMEN,

I have the honour to present my eleventh Annual Report, the 32nd of the Series, on the work of the School Medical Service.

My thanks are due to Mr. Fowler and Mr. Walsh for their accurate compilation of the statistics embodied in this Report. I wish also to thank all Members of the School Medical Staff—medical, nursing and clerical—for their loyal co-operation and assistance during the year.

In conclusion, Mr. Chairman, it is once more a privilege to express my indebtedness to the Members of the Education Committee for the unfailing support which they have rendered to the Staff of the School Medical Department.

I am, Mr. Chairman, Ladies, and Gentlemen,

Your obedient Servant,

V. T. THIERENS,  
School Medical Officer.

## Section 1.

### CO-ORDINATION.

The co-ordination of the School Medical with the other health services has been fully described in previous reports.

### STRUCTURAL WORK AND DECORATIONS CARRIED OUT IN THE ELEMENTARY SCHOOLS.

I have to thank the Borough Engineer for the following details of the work carried out during the year:—

The undermentioned schools were decorated:—

Cedar Street (inside and out).	St. James', Blackamoor.
Intack (inside and out).	St. James', Guide.
Harrison Gymnasium	St. Mary's R.C.
(inside and out).	Witton Infants'.
Sacred Heart.	St. Gabriel's.

The following improvement works have been carried out:—

Park Road School.—One range of 3 lavatory basins with Sink Geyser and Union over Basins has been fixed in the Nursery Classroom.

A new heating boiler and 2 additional radiators have been installed. Doors to all the conveniences have been fixed and W.C. pedestals have been replaced by 3 of less height for infants' use; portions of the outer walls of the buildings pointed; and some partitions and Sliding Yard Gates overhauled and repaired.

New floors have been laid in St. Alban's R.C. School.

Intack School.—All the verandahs have been closed in with glazed partitions; one range of 12 lavatory basins with 2 sinks, 2 geysers and union over basins have been fixed in the Nursery Classroom. A portion of the grass playground has been railed off with Rustic Fencing and a sandpit constructed inside.

Bangor Street School.—Hot-water taps have been provided over all the wash-basins in the School, supplied from the domestic hot-water supply and one geyser.

New heating boilers have been installed at Moss Street, St. James' Guide, Holy Trinity and Christ Church Schools.

Two additional radiators have been fixed at Accrington Road School. At Barton Street School, new roof, ventilators, and opening lights in the windows have been fixed.

The conveniences at the whole of the Schools have been white-washed during the year, and all the roofs, gullies, etc., of the Council Schools overhauled.

#### SANITARY ACCOMMODATION IN SCHOOLS.

A survey of the sanitary accommodation available for scholars attending the Elementary Schools in the Borough was made towards the end of the year.

The following is a table showing the sanitary accommodation available in the Blackburn Schools:—

Table 1.

	School Population	Water Closets				Urinals	
		No. of pedestal W. C.'s flushed with separate cisterns	No. of pedestal W. C.'s flushed with automatic cisterns	No. of trough closets together with No. of seats flushed		No. with sparge pipes	No. without sparge pipes
				Automatically	By Hand		
Accrington Road C. ....	216	30	...	...	...	14	...
Audley C. ....	524	39	...	...	...	20	...
Bank Top C. ....	226	2	...	...	12	6	10
Bangor Street C. ....	374	...	26	...	...	18	...
Blakey Moor Central ....	655	36	...	...	...	20	...
Cedar Street C. ....	352	18	...	...	...	16	...
Christ Church C.E. ....	497	...	18	6	...	15	...
Emmanuel C.E. ....	283	...	...	21	...	...	30
Furthergate C. ....	224	...	...	14	...	8	...
Four Lane Ends C. ....	184	...	8	...	...	...	10
Griffin C.E. ....	215	2	12	...	...	6	4
Holy Trinity C.E. ....	359	1	16	...	...	6	10
Intack Council ....	407	20	...	...	...	12	...
Lower Darwen C. ....	98	1	...	9	...	...	5
Mill Hill C. ....	250	7	16	...	...	...	20
Moss Street C. ....	204	5	8	...	...	5	5
C. of E. Central ....	615	2	13	...	...	18	...
Park Road C. ....	265	13	...	...	...	...	5
Regent Street Special ....	13	2	6	...	...	...	3
St. Aidan's C.E. ....	275	12	4	...	...	...	10
St. Alban's R.C. ....	749	21	...	...	...	...	10
St. Alban's Hr. Grade (Boys)	197	6	...	...	...	...	10
St. Anne's R.C. ....	535	3	...	20	...	...	9
St. Andrew's C.E. ....	154	...	...	11	...	...	6
St. Barnabas' C.E. ....	282	...	13	...	...	...	8
St. Bartholomew's C.E. ....	177	...	...	13	...	...	12
St. Gabriel's C.E. ....	124	...	...	7	...	...	4
St. James' C.E. ....	183	1	9	...	...	9	...
St. James' C.E. (Black-a-Moor)	52	...	3	4	...	8	...
St. James' C.E. (Guide) ....	67	...	...	10	...	2	6
St. John's C.E. ....	375	...	...	23	...	9	...
St. Joseph's R.C. ....	481	...	...	14	...	...	9
St. Luke's C.E. ....	231	...	16	...	...	...	9
St. Peter's R.C. ....	513	2	25	...	...	17	...
St. Michael's C.E. ....	134	...	...	6	7	12	...
St. Matthew's C.E. ....	287	1	...	12	...	...	10
St. Mary's R.C. ....	466	1	...	10	...	4	4
St. Paul's C.E. ....	288	...	13	...	...	15	...
St. Peter's C.E. ....	110	15	...	...	...	...	15
St. Stephen's C.E. ....	208	1	...	21	...	7	7
St. Silas' C.E. ....	325	...	16	...	...	...	12
St. Thomas' C.E. ....	422	...	12	...	...	...	12
Sacred Heart R.C. ....	148	1	...	7	...	2	2
Wensley Fold C.E. ...	174	2	8	...	...	12	...
Witton C.E. (Infants) ....	55	...	...	6	...	6	...
Roe Lee Park ....	318	18	...	...	...	18	...
JUVENILE UNEMPLOYED TRAINING CENTRE SCHOOLS.							
Maudsley Street ....	...	7	...	...	...	8	...
Audley Range ....	...	...	...	13	...	9	...

There are no pail closets.



## COST OF SCHOOL MEDICAL SERVICE.

Calendar Year 1937.

I am indebted to the Borough Treasurer, Mr. R. G. Pye, for the following particulars :—

PAYMENTS.	£	s.	d.
Salaries .....	4811	18	3
Operative Treatment .....	662	12	6
Printing, Stationery and Advertising .....	58	11	0
Drugs, Materials, and Apparatus .....	348	12	10
Repair and upkeep of Premises .....	55	14	11
Rent, Rates and Taxes .....	311	7	6
Fuel, Light and Cleaning .....	504	5	10
Conveyance of children .....	10	5	10
Travelling Expenses .....	22	17	7
National Insurance .....	20	13	8
Use of Slipper Baths .....	71	5	0
Fire Insurance .....	2	14	2
Uniforms .....	44	13	1
Interest .....	25	7	1
Sinking Fund .....	41	18	8
Orthoptic Clinic .....	37	3	2
Incidentals .....	10	7	7
	7040	8	8
RECEIPTS :			
Services of Staff to Health Department .....	166	16	3
Sale of Spectacles .....	51	10	3
Operation Fees .....	4	16	6
Dental Clinic Fees .....	1	19	3
Use of Ambulance .....	9	6	6
Rent of Clinic .....	30	0	0
	264	8	9
Net Cost .....	6775	19	11

The rateable value of the Borough on April 1st, 1937, was £716,766 (the sum represented by a rate of 1d. in the £ being £2,766).

The net cost of medical inspection and treatment in both elementary and secondary schools for the twelve months ended December 31st, 1937, was £6,775 19s. 11d., compared with the figure £6,840 1s. 8d. in the year 1936.

The Government Grant was £3,366 12s. 5d., and the cost to the General Rate was £3,409 7s. 6d.

The net cost of School Medical Service for 1937 per child on the school rolls was 10/0.5d., and 5/0.6d. was borne by the General Rate, and the net cost as a decimal part of a penny rate was 2.449, and 1.232 was borne by the General Rate.

## SCHOOL POPULATION AND AVERAGE ATTENDANCE.

There are 17 Council and 30 Non-Provided Schools in the town. The following Table gives particulars of attendances thereat during 1937 :—

Table 2.

	No. of Schools	No. on Rolls	Average Attendance	Percent. Attendance
Boys .....		1921	1768	92·0
Girls .....		1928	1769	91·7
Mixed .....		4995	4564	91·3
Infants over 5 .....		3334 }	3720	80·0
Infants under 5 .....		1316 }		
<b>SCHOOLS :</b>		<b>13494</b>	<b>11821</b>	<b>87·6</b>
Church of England .....	24	5998	5198	86·8
Roman Catholic .....	6	3142	2774	88·2
Council .....	14 }	4354	3849	88·4
Special Schools .....	3 }			
<b>Total .....</b>	<b>47</b>	<b>13494</b>	<b>11821</b>	<b>87·6</b>

The Attendance during the Quarter ending March 31st, 1937, suffered severely owing to an epidemic of Influenza.

During November and December, 1937, Chicken Pox and Measles caused a further reduction in the attendance.

The decrease in the number of children on the school rolls was 541, as compared with a decrease of 857 in 1936. Church of England Schools showed a decrease of 236; Roman Catholic a decrease of 86, and Council a decrease of 219. The figures for 1922 to 1936 are given below for purposes of comparison :—

	No. on Rolls	Average Attendance	Percent. Attendance	Infants on Rolls
1922 .....	18,250	16,039	87·8	—
1923 .....	17,964	15,851	88·2	—
1924 .....	17,522	15,110	86·2	5,422
1925 .....	17,357	15,009	87·9	5,832
1926 .....	17,065	15,009	87·9	6,129
1927 .....	16,753	14,714	87·8	5,976
1928 .....	16,433	14,489	88·1	5,902
1929 .....	16,087	14,119	87·7	5,739
1930 .....	15,935	13,949	87·5	5,589
1931 .....	15,948	13,987	87·6	5,472
1932 .....	16,220	14,544	89·6	5,201
1933 .....	16,259	14,148	87·0	5,037
1934 .....	15,676	14,028	89·1	4,853
1935 .....	14,892	13,075	87·8	4,773
1936 .....	14,035	12,327	87·7	4,650

## Section 2.

## MEDICAL INSPECTION.

The arrangements for Medical Inspection are as described in the Report for 1933.

## FINDINGS OF SCHOOL MEDICAL INSPECTION.

Table 3.

Name of School	Entrants				Intermediates				Leavers			
	Number Ex- amined		Parents Present		Number Ex- amined		Parents Present		Number Ex- amined		Parents Present	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Accrington Road C. ....	—	—	—	—	—	—	—	—	25	32	5	6
Audley C. ....	9	16	8	14	28	10	15	6	40	48	7	12
Bank Top C. ....	14	15	11	9	7	12	1	7	2	5	—	2
Bangor Street C. ....	—	—	—	—	—	—	—	—	49	57	5	12
Blakey Moor Central ....	—	—	—	—	—	—	—	—	85	88	12	26
Cedar Street C. ....	15	29	14	26	20	21	5	14	—	—	—	—
Christ Church C.E. ....	31	32	24	25	12	23	7	16	3	7	1	2
Emmanuel C.E. ....	15	17	11	15	13	12	7	4	1	1	—	—
Furthergate C. ....	16	16	14	9	12	5	9	1	1	—	—	—
Four Lanes End C. ....	15	12	15	12	14	5	6	5	1	—	1	—
Griffin C.E. ....	14	15	9	10	9	15	1	10	3	3	—	2
Holy Trinity C.E. ....	25	20	22	14	12	20	6	7	12	8	5	2
Lower Darwen C. ....	7	7	7	7	5	3	1	3	—	—	—	—
Mill Hill C. ....	21	13	16	9	10	11	3	9	5	4	1	—
Moss Street C. ....	8	20	4	15	9	6	1	4	6	7	1	—
C. of E. Central ....	—	—	—	—	—	—	—	—	94	89	5	16
Park Road C. ....	25	20	22	15	14	9	9	6	—	—	—	—
Roe Lee Park C. ....	44	40	29	29	21	18	14	15	—	—	—	—
Intack C. ....	31	41	24	44	29	15	12	6	1	—	—	—
St. Aidan's C.E. ....	24	20	17	16	9	11	4	5	9	7	1	1
St. Alban's R.C. ....	30	44	25	28	31	44	13	22	7	33	2	4
St. Alban's Hr. Grade (Boys) ...	—	—	—	—	—	—	—	—	75	—	1	—
St. Anne's R.C. ....	29	31	24	27	21	22	8	16	15	18	—	5
St. Andrew's C.E. ....	11	8	8	7	2	15	2	7	4	3	1	—
St. Barnabas' C.E. ....	13	12	10	8	14	7	9	6	8	6	—	2
St. Bartholomew's C.E. ....	11	5	10	5	6	10	4	8	1	5	—	2
St. Gabriel's C.E. ....	13	12	13	8	9	5	5	3	—	—	—	—
St. James' C.E. ....	13	9	10	9	13	12	9	8	3	4	2	3
St. James' C.E. (Black-a-Moor)..	7	2	5	1	4	2	2	1	—	—	—	—
St. James' C.E. (Guide) ....	8	7	7	7	4	3	1	1	—	—	—	—
St. John's C.E. ....	12	24	10	18	10	15	4	10	6	1	1	—
St. Joseph's R.C. ....	21	28	16	11	28	13	8	8	13	19	2	4
St. Luke's C.E. ....	21	12	15	12	15	13	7	6	4	10	—	3
St. Michael's C.E. ....	4	11	4	9	8	8	2	4	—	—	—	—
St. Matthew's C.E. ....	9	14	7	9	13	16	5	6	8	3	2	1
St. Mary's R.C. ....	18	29	17	18	22	17	12	12	13	12	3	9
St. Paul's C.E. ....	11	18	8	14	9	7	3	5	11	15	1	7
St. Peter's C.E. ....	1	10	1	10	5	7	2	5	—	—	—	—
St. Peter's R.C. ....	14	19	9	15	23	30	16	15	15	14	2	5
St. Stephen's C.E. ....	14	8	12	6	8	5	5	4	—	—	—	—
St. Silas' C.E. ....	27	27	26	24	14	13	12	13	2	—	—	—
St. Thomas' C.E. ....	33	33	24	32	12	13	3	7	8	8	1	3
Sacred Heart R.C. ....	6	10	6	7	8	6	5	2	—	1	—	—
Wensley Fold C.E. ....	17	21	12	17	6	8	4	5	3	2	—	1
Witton C.E. (Infants) ....	10	6	10	6	—	—	—	—	—	—	—	—
Totals .....	667	733	536	577	509	487	242	292	533	510	62	130
	1400				996				1043			



TABLE SHOWING ATTENDANCES OF PARENTS AT ROUTINE MEDICAL INSPECTIONS.

*Table 4.*

	No. Ex'd.	Parents Present	Percent Parents Attend- ances.	Boys	Girls	Percent of P'ent Attend- ances 1936.
Entrants .....	1400	1113	79.5	80.3	78.7	74.6
Intermediates .....	996	534	53.6	47.5	59.9	54.8
Leavers .....	1043	192	18.4	11.6	25.4	22.3
Total .....	3439	1839	53.4	49.1	57.7	53.8

NUMBER OF ROUTINE INSPECTIONS, 1933—1937.

*Table 5.*

Code Group.	1937	1936	1935	1934	1933
Entrants .....	1400	1640	1175	1470	1097
Intermediates .....	996	1072	1055	1223	1285
Leavers .....	1043	1113	1183	1442	1679
Total .....	3439	3825	3413	4135	4061

Parents are invited to attend the Routine Medical Inspection of their children in school and all medical examinations at the Inspection and Special Clinics.



Table 6.

## UNCLEANLINESS.

Groups	Condition of Head					Condition of Body				1936 %age Clean	
	Clean	Dirty	Nits	Pedi- culi	%age Clean	Clean	Dirty	Flea bitten	%age Clean	Head	Body
Entrants :											
Boys .....	645	...	21	1	96·7	658	1	8	98·6	95·9	99·7
Girls .....	593	...	140	...	80·9	722	1	10	98·5	81·0	99·4
Intermediates :											
Boys .....	495	2	12	...	97·2	501	3	5	98·6	98·1	99·4
Girls .....	325	...	161	1	66·7	483	...	4	99·1	77·8	98·6
Leavers :											
Boys .....	523	...	9	1	98·1	524	2	7	98·3	97·5	99·0
Girls .....	365	...	143	2	71·5	506	...	4	99·2	79·7	99·4
Totals :											
Boys .....	1663	2	42	2	97·3	1683	6	20	98·4	97·0	99·4
Girls .....	1283	...	444	3	74·1	1711	1	18	98·9	79·8	99·2
Combined Total .....	2946	2	486	5	85·3	3394	7	38	98·7	88·3	99·3

Table 7.

	Percentage of Clean Heads		Percentage of Clean Bodies	
	Boys	Girls	Boys	Girls
1910-1914 nc. ....	93·2		54%	
1920-1923 inc. ....			98·1	
1924.....	98·4	74·1	95·9	92·2
1925.....	96·9	78·3	96·0	91·5
1926.....	93·5	64·4	93·6	95·5
1927.....	96·2	80·0	94·3	94·0
1928.....	97·6	77·1	96·7	96·8
1929.....	97·7	76·0	96·6	96·5
1930.....	98·6	78·4	97·7	97·6
1931.....	97·0	74·1	97·5	97·6
1932.....	98·0	79·3	96·0	96·7
1933.....	93·6	71·9	96·2	97·4
1934.....	96·7	74·0	98·3	98·6
1935.....	95·2	72·3	98·3	98·3
1936.....	97·0	79·8	99·4	99·2
1937.....	97·3	74·1	98·4	98·9

*Table 8.*

## CLOTHING AND FOOTGEAR.

	Entrants.	Inter- mediates.	Leavers.
Clothing—			
Satisfactory .....	1384	946	991
Unsatisfactory .....	16	50	52
Percentage satisfactory...	98·8	94·9	95·0
Footgear—			
Satisfactory .....	1397	995	1042
Unsatisfactory .....	3	1	1
Percentage satisfactory	99·8	99·9	99·8

The subjoined Table gives the findings during 1936, compared with 1937:—

*Table 9.*

## PERCENTAGE SATISFACTORY.

	1937.		1936	
	Clothing	Footgear	Clothing	Footgear
Boys .....	95·9	99·8	96·5	99·0
Girls .....	97·1	99·8	97·7	99·9

## NUTRITION.

Table 10 gives particulars of the nutritional findings at routine medical inspections of the Code Age Groups during 1937.

Table 10.

	Excellent A						Normal B						Slightly subnormal C						Bad D						Total	
	B			G			B			G			B			G			B			G			B	G
	No.		%	No.		%	No.		%	No.		%	No.		%	No.		%	No.		%	No.		%		
Entrants.....	119	17.8	148	20.2			430	64.5		476	64.5		107	16.0	105	14.3			11	1.7	4	0.6			667	733
Intermediates.....	45	8.9	72	14.8			321	62.9		341	70.0		131	25.8	72	14.8			12	2.4	2	0.4			509	487
Leavers .....	61	11.5	89	17.4			358	67.1		321	63.0		104	19.5	84	16.5			10	1.9	16	3.1			533	510
Total.....	225	13.1	309	17.9			1109	64.9		1138	65.7		342	20.0	261	15.1			33	2.0	22	1.3			1709	1730

During the year, 7,013 school children were examined at special nutritional surveys, the methods employed being described in last year's Report.

The findings at these inspections are expressed in the appended Table.

*Table 11*  
NUTRITION SURVEY  
of certain Blackburn Elementary Schools carried out during 1937.

Children examined	Numbers.				Percentages.			
	Excellent	Normal	Slightly Sub-normal	Bad.	Excellent	Normal	Slightly Sub-normal	Bad.
Boys .....	494	2542	443	26	14.1	72.5	12.7	0.7
Girls .....	465	2628	402	13	13.2	75.0	11.4	0.4
Total .....	959	5170	845	39	13.7	73.7	12.1	0.5

These findings are satisfactory, although they cannot be compared with the corresponding findings for 1936, as they relate to different schools to those inspected during the latter year.



Table 12 is a composite Table which analyses the nutritional state of all Blackburn elementary school children as found at the Special Surveys carried out during 1936 and 1937.

Table 12.  
NUTRITION SURVEY.  
of all Departments of Blackburn Elementary Schools, 1936 and 1937.

Children examined.		Numbers.				Percentages			
		Excellent.	Normal.	Slightly Sub-normal.	Bad.	Excellent.	Normal.	Slightly Sub-normal.	Bad.
Boys	.....	5778							
		621	4284	823	50	10·8	74·1	14·2	0·9
Girls	.....	5798							
		712	4359	698	29	12·3	75·2	12·0	0·5
Total	....	11576	8643	1521	79	11·5	74·7	13·1	0·7

The following Table gives a comparison between the findings of the Special Survey in Blackburn and of the findings during routine medical inspection throughout the whole of England and Wales during 1936.

	Excellent. per cent.	Normal. per cent.	Slightly Sub-normal. per cent.	Bad. per cent.
Blackburn .....	11.5 ...	74.7 ...	13.1 ...	0.7
England and Wales ...	14.6 ...	74.2 ...	10.5 ...	0.7

During the year, 2,900 children were given a total of 249,240 pints of free milk and 7,194 received 463,234 pints on payment. Over 74,000 free meals and 16,803 doses of malt and oil were dispensed.

In the early part of the year the Committee made arrangements, largely as an experiment, to distribute milk from four Centres during the Whitsuntide holidays. The Centres were well attended and a total of 4,076 pints of milk were supplied. This decided the Committee to extend the scheme to three additional centres during subsequent holidays.

During the remaining school holidays nearly 30,000 pints of milk were issued from the seven centres.

### HEART CONDITIONS.

Dr. Jeffrey Ramsay has again co-operated helpfully by examining children specially referred from the School Medical Department to his Clinic at the Royal Infirmary.

Many children affected with cardiac trouble can be readily classified on clinical grounds as either fit or unfit for participation in the usual exercises or games.

A second group exists where it is difficult to assess by the ordinary methods available at the School Clinics the probable cardiac response to exercise. This group presents a problem to the medical inspector, who, whilst loath to prohibit participation in games and thereby label the child as an invalid, is equally unwilling to permit exposure of an abnormal heart to possibly harmful strain. Examination by the electro-cardiograph renders possible a reliable classification of such children as to fitness for exercise.

During the year 29 children were so examined by Dr. Ramsay, who permitted full exercise in the case of 16 children, modified exercise in the case of 2, and excluded 11 children from participation.

Diagnoses of children examined by him were as under :—

Congenital lesion	6
Mitral lesion	11
Various conditions	11
Nil abnormal	1
	—
	29
	—

The findings once more illustrate the important part played by rheumatism in the causation of heart trouble. Of 22 children with acquired cardiac abnormality 9, or 45 per cent., gave a history of previous rheumatism.

Table 13.  
HEART AND CIRCULATORY SYSTEM.

	Entrants		Intermediates		Leavers		%age
	M	F	M	F	M	F	
Organic disease	2	6	7	4	4	9	0.9
Functional disease	32	26	51	43	60	48	7.6
Anæmia	29	15	22	18	11	46	4.1
Other defects	—	—	—	—	—	—	—
Totals	63	47	80	65	75	103	12.6

Table 14.  
HEIGHTS AND WEIGHTS.

BOYS.				GIRLS.		
Year of Birth	Number Examined	Average Height in inches	Average Weight in lbs.	Number Examined	Average Height in inches	Average Weight in lbs.
1923	...	...	...	...	...	...
1924	532	56.4	80.5	457	57.1	81.6
1925	...	...	...	2	53.5	68
1926	3	54.7	76.3	5	51.4	68.6
1927	8	51.2	59.5	7	50.7	55.4
1928	463	49.5	57.5	448	49.8	55.7
1929	3	47.0	55.0	1	48.0	51.0
1930	43	46.3	47.0	38	46.2	47.5
1931	88	43.7	44.0	101	43.5	42.3
1932	208	43.7	43.5	258	42.5	39.5
1933	222	39.7	36.9	220	39.7	36.2
1934	79	37.7	33.7	70	37.2	33.0

Table 15.

## CHEST COMPLAINTS (other than Tuberculosis).

	M	F	Percentages		Total Percent- age	Total Percent. 1936
			M	F		
Entrants .....	36	48	5.4	6.5	6.0	7.9
Intermediates .....	31	25	6.0	5.1	5.6	8.2
Leavers .....	16	7	3.0	1.3	2.2	4.0
Totals .....	83	80	4.8	4.6	4.7	6.8

Table 16.

## TUBERCULOSIS.

## CHILDREN REFERRED TO THE TUBERCULOSIS OFFICER.

	M	F	TOTAL
Total No. of Children Referred	50	47	97
Proved to be Tuberculosis of Lungs .....	2	2	4
Proved to be: Bone or Joint Tubercle .....	1	1	2
Proved to be: Glands or Skin Tubercle .....	1	—	1
Proved to be: Tuberculosis of Abdomen or other organs	1	1	2
No. of cases not Tuberculosis	24	22	46
Diagnosis not Completed ....	2	1	3
No. of Contacts Examined—			
Suffering from Tuberculosis	—	—	—
Not suffering from Tuberculosis .....	19	19	38



Table 17.

NOTIFICATIONS OF AND DEATHS FROM TUBERCULOSIS  
IN CHILDREN OF SCHOOL AGE.

No. of Primary Notifications					No. of Deaths			
Year	Pulmonary		Non-Pulmonary		Pulmonary		Non-Pulmonary	
	M	F	M	F	M	F	M	F
1937	2	2	4	2	—	—	2	—
1936	2	—	8	5	—	—	1	—
1935	2	1	13	1	—	—	5	—
1934	1	1	6	1	—	1	2	—

The ages at death in the fatal cases were:—

		5 to 10 years	10 to 15 years
Pulmonary .....	M	—	—
	F	—	—
Non-Pulmonary .....	M	1	1
	F	—	—

Table 18.

NOSE AND THROAT.

	Entrants.		Inter-mediate.		Leavers.	
	M.	F.	M.	F.	M.	F.
NOSE :						
Deflected Septum .....	1	—	—	1	8	—
Other Defects .....	—	1	4	6	9	10
TONSILS :						
Slight Enlargement .....	117	167	138	148	125	125
Much Enlargement .....	12	9	10	6	7	19
ADENOIDS :						
Present alone .....	3	1	2	7	2	—
Mouth Breathers .....	16	12	10	2	5	3
Enlarged Tonsils and Adenoids (but not Mouth Breathers) .....	7	21	10	8	—	5
GLANDS : CERVICAL :						
Palpable .....	117	117	128	135	79	168
Visibly Enlarged .....	2	—	3	1	—	—

## PERCENTAGES FROM ABOVE TABLE.

1937

1936

	En- trants.	Inter- medi- ates.	Leav- ers.	En- trants.	Inter- medi- ates.	Leav- ers.
Abnormalities of Tonsils	21.8	30.3	26.4	28.7	31.1	22.2
Adenoids .....	4.2	3.9	1.4	4.5	3.1	2.3
Enlarged Glands .....	16.8	26.8	2.3	24.7	22.2	21.1

Table 19.

## DULL OR BACKWARD CHILDREN.

Groups	M	F	Total	Per-cent
Entrants .....	2	2	4	0.2
Intermediates .....	5	3	8	0.8
Leavers .....	7	3	10	0.9
Totals .....	14	8	22	0.6

Table 20.

## SKIN DISEASES.

	Entrants		Intermediates		Leavers		Totals	
	M	F	M	F	M	F	M	F
Ringworm—								
Body	—	—	—	—	1	—	1	—
Scalp	1	1	2	1	2	—	5	2
Impetigo ..	5	5	3	3	3	—	11	8
Scabies ....	—	—	1	—	—	—	1	—
Other .....	11	8	9	3	2	8	22	19
Totals	17	14	15	7	8	8	40	29

## PERCENTAGE INCIDENCE (Routine Examination).

	1936		1937	
	Boys	Girls	Boys	Girls
Entrants .....	1.9	1.4	2.5	1.9
Intermediates .....	1.5	1.6	2.9	1.4
Leavers .....	1.8	1.5	1.5	1.5
	1.8	1.6	2.3	1.6

Table 21.

## EYE TROUBLES.

## EXTERNAL EYE DISEASE.

Complaint	Entrants		Inter-mediates		Leavers	
	M	F	M	F	M	F
Squint .....	17	26	20	15	10	4
Blepharitis .....	4	2	6	8	10	3
Conjunctivitis .....	...	1	...	...	...	...
Corneal Opacity .....	...	...	...	...	...	...
Other Defects .....	7	3	3	...	7	4
	28	32	29	23	27	11

The appended Table compares the percentages of external eye disease findings in 1937 and those in 1936.

	1936		1937	
	Male.	Female.	Male.	Female.
Entrants .....	4.3	4.2	4.2	4.3
Intermediates .....	7.2	3.5	5.7	4.7
Leavers .....	5.2	4.3	5.0	2.1

Table 22.

## VISION.

Extent of Defect		Intermediate				Leavers				Total			
		M		F		M		F		M		F	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Normal $\frac{6}{8}$ or $\frac{6}{9}$ .....	R	475	93.3	447	91.8	483	90.6	446	87.4	958	91.9	893	89.6
	L	472	92.7	444	91.2	488	91.6	447	87.6	960	92.1	891	89.4
$\frac{6}{12}$ to $\frac{6}{24}$ ...	R	32	6.3	36	7.4	44	8.3	52	10.2	76	7.3	88	8.8
	L	31	6.1	38	7.8	38	7.1	55	10.8	69	6.6	93	9.3
$\frac{6}{36}$ or worse	R	2	0.4	4	0.8	6	1.1	12	2.4	8	0.8	16	1.6
	L	6	1.2	5	1.0	7	1.3	8	1.6	13	1.3	13	1.3

The above Table has been amplified to give the figures for vision in both eyes. If spectacles are worn and there is correct vision in one or both eyes the child is classified as having normal vision. Similarly, if spectacles do not entirely correct, the vision classified is that found whilst the spectacles are being worn.

	Intermediates		Leavers	
	M	F	M	F
Normal Vision .....	93·0%	91·5%	91·1%	87·5%
Moderate Visual Defect	6·2%	7·6%	7·7%	10·5%
Severe Visual Defect	0·8%	0·9%	1·2%	2·0%

COMPARISON WITH 1936—VISION LOWER THAN 6/9ths IN ONE  
OR BOTH EYES.

Groups	1936		1937	
	M	F	M	F
Intermediates .....	6·6	5·1	7·0	8·5
Leavers .....	10·1	13·6	8·9	12·5

The Entrant group are not examined for visual acuity at routine examinations, as the majority do not know the letters of the alphabet.

Arrangements are in force whereby children transitional between the entrant and intermediate groups are tested periodically for visual acuity, and all school-children are so examined every two years or eighteen months.

During the year the 10-year-old group children were examined by the School Nurses, and suitable cases were referred for ophthalmic examination.

Table 23.  
DEFECTIVE HEARING.

	Entrants	Intermediates	Leavers	No. of Children inspected
Boys .....	6	6	15	1709
Girls .....	10	8	11	1730



## PERCENTAGES WITH DEFECTIVE HEARING, 1936 AND 1937.

	1936		1937		1936	1937
	Male	Female	Male	Female	No. of Child'n Examined	No. of Child'n Examined
Entrants .....	1·8	1·2	0·9	1·3	1640	1400
Intermediates .....	1·8	0·8	1·1	1·6	1072	996
Leavers .....	3·0	1·3	2·8	2·1	1113	1043

Treatment of minor ear defects is given at the Inspection and Minor Ailment Clinics, and the more intractable cases are referred to Mr. Wishart, your consultant aurist, who conducts one "reference" clinic monthly at the Health Department. Particulars of attendances at this Clinic are given in the subjoined Table.

Table 24.

## AURAL CLINIC.

Number of cases seen by Aural Surgeon .....	77
Number of examinations made by Aural Surgeon .....	85
Number of children recommended for T. and A. Operation ...	29
Number of children recommended for drops .....	23
Number of children recommended for politzerisation treatment	7
Number of children recommended for other treatment .....	8
Number of cases where no treatment was advised .....	10

During the year eight partially-deaf children were referred to the Royal Cross School for audiometer investigation.

Table 25

## SPEECH DEFECTS.

	Entrants	Inter- mediates	Leavers	No. of Child'n Inspected
Boys .....	22	16	14	1709
Girls .....	13	7	9	1730
Totals .....	35	23	23	3439

## PERCENTAGE DEFECTS—COMPARISON WITH 1936.

	1936		1937	
	Male.	Female.	Male.	Female.
Entrants .....	2·7	0·8	3·3	1·7
Intermediates .....	3·1	2·0	3·1	1·4
Leavers .....	3·2	0·7	2·6	1·7
Totals .....	3·0	1·1	3·0	1·6

## TEETH.

Table 26.

1936.

	Entrants				Intermediates				Leavers			
	M.		F.		M.		F.		M.		F.	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Perfect set of Teeth .....	239	29·3	282	34·2	84	15·6	92	17·3	289	54·4	338	58·1
One to Three Decayed.....	307	37·7	285	34·5	254	47·1	257	48·2	203	38·2	208	35·7
Four or more Decayed .....	269	33·0	258	31·3	201	37·3	184	34·5	39	7·4	36	6·2
Totals ....	815	...	825	...	539	...	533	...	531	...	582	...

1937.

	Entrants				Intermediates				Leavers			
	M.		F.		M.		F.		M.		F.	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Perfect set of Teeth .....	229	34·3	262	35·7	122	23·9	120	24·6	276	51·8	309	60·6
One to Three Decayed.....	205	30·8	219	29·9	249	49·0	236	48·4	221	41·4	161	31·6
Four or more Decayed.....	233	34·9	252	34·4	138	27·1	131	27·0	36	6·8	40	7·8
Totals ...	667	...	733	...	509	...	487	...	533	...	510	...

The above Tables relate to the findings of the medical inspectors at routine examinations, and have no relation to the findings of the School Dentist.

Dental Inspection and Treatment are discussed in a later Section of this Report.

Table 27.

## RICKETS AND DEFORMITIES.

	Entrants		Inter-mediates		Leavers		Totals		Percent 1936		Percent 1937	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
<i>Evidence of—</i>												
Slight Rickets .....	39	45	26	21	25	25	90	91	5·8	5·2	5·2	5·2
Marked Rickets ...	3	4	3	...	3	3	9	7	0·5	1·0	0·5	0·4
Spinal Curvature ...	1	...	3	...	1	4	5	4	0·5	0·6	0·3	0·2
Other Deformities ..	12	14	22	17	35	65	69	96	5·6	6·0	4·0	5·5

Table 28.

SUMMARY OF THE FINDINGS AT ROUTINE EXAMINATIONS.  
(Percentages).

Condition	Entrants		Inter-mediates		Leavers		All Groups	
	M	F	M	F	M	F	M.	F.
Uncleanliness (Percent. clean)—								
Head .....	96·7	80·9	97·2	66·7	98·1	71·5	97·3	74·1
Body .....	98·6	98·5	98·6	99·1	98·3	99·2	98·4	98·9
Clothing (satisfactory)	98·6	99·0	94·5	95·5	94·0	96·1	95·9	97·1
Footgear (satisfactory)	99·6	100·0	100·0	99·8	100·0	99·8	99·8	99·8
Nutrition (normal) .....	82·3	85·1	71·8	84·8	78·6	80·4	78·0	83·6
Circulatory System (defts)	9·4	6·4	15·7	13·3	14·0	20·1	12·7	12·4
Pulmonary System (defects : not T.B.) ..	5·4	6·5	6·0	5·1	3·0	1·3	4·5	4·6
Defects of Nose & Throat	23·3	28·7	34·1	36·5	29·2	31·7	28·9	32·3
Enlarged Cervical Glands	17·8	15·9	25·7	27·9	14·8	32·9	19·4	25·6
External Eye Disease	4·2	4·3	5·7	4·7	5·0	2·1	5·0	3·7
Defective Vision .....	...	...	7·0	8·5	8·9	12·5	8·0	10·5
Defective Hearing .....	0·9	1·3	1·1	1·6	2·8	2·1	1·6	1·7
Speech Defects .....	3·3	1·7	3·1	1·4	2·6	1·7	3·0	1·6
Dental Disease (More than 4 decayed)	34·9	34·4	27·1	27·0	6·8	7·8	23·8	24·4
Skin Disease .....	2·5	1·9	2·9	1·4	1·5	1·5	2·3	1·6
Dull and Backward ....	0·3	0·2	1·0	0·6	1·3	0·6	0·9	0·5

Table 29.

NUMBER OF CHILDREN EXAMINED AT ROUTINE INSPECTIONS  
AND FOUND TO REQUIRE TREATMENT.

(Excluding Uncleanliness and Dental Disease).

Group	No. of Children inspected	No. referred for Treatment	Percentage referred for Treatment	1936
Entrants .....	1400	208	14·8	20·1
Intermediates .....	996	261	26·2	30·1
Leavers .....	1043	326	31·2	29·8
	3439	795	23·1	25·7



## Section 3.

Table 30.

## INFECTIOUS DISEASES.

NOTIFIABLE DISEASES OCCURRING IN THE ELEMENTARY SCHOOLS  
OF THE BOROUGH.

School	Scarlet Fever		Diph- theria		Erysi- pelas		Others			
	M.	F.	M.	F.	M.	F.	Influenzal Pneumonia		Encephal itis Lethargica	
Accrington Road .....	...	1	...	...	...	...	...	...	...	...
Audley C. ....	2	6	1	6	...	...	2	1	...	...
Bank Top .....	...	3	2	7	...	...	...	...	...	...
Bangor Street C. ....	...	...	1	1	...	...	...	...	...	...
Blakey Moor C. ....	...	1	...	...	...	...	...	...	...	...
Cedar Street .....	...	3	...	...	...	...	...	1	...	...
C.E. Central .....	1	1	3	1	...	...	...	...	...	...
Christ Church .....	8	8	5	5	...	...	...	1	...	...
Emmanuel .....	3	2	...	1	...	...	...	...	...	...
Furthergate .....	1	3	...	...	...	...	...	1	...	...
Four Lanes End .....	...	1	...	...	...	...	...	...	...	...
Griffin .....	4	2	...	1	...	...	...	...	...	...
Holy Trinity .....	5	3	1	1	...	...	...	...	...	...
Intack C. ....	6	2	...	...	...	...	...	...	...	...
Lower Darwen C. ....	...	1	...	...	...	...	...	...	...	...
Mill Hill C. ....	...	...	...	...	...	...	...	...	...	...
Moss Street .....	3	6	...	3	...	...	...	...	...	...
Park Road .....	...	3	2	...	...	...	1	...	...	...
Roe Lee Park .....	...	2	...	...	...	...	...	...	...	...
St. Aidan's .....	5	3	1	1	...	...	...	...	...	...
St. Alban's R.C. ....	7	3	1	4	...	...	1	2	...	...
St. Alban's H.G. ....	...	...	...	...	...	...	...	...	...	...
St. Anne's R.C. ....	2	3	...	1	...	...	1	...	...	...
St. Andrew's .....	...	1	...	...	...	...	...	...	...	...
St. Barnabas' .....	5	6	1	1	...	...	...	...	...	...
St. Bartholomew's .....	...	4	2	1	...	...	1	...	...	...
St. Gabriel's .....	...	2	...	1	...	...	...	...	...	...
St. James' C.E. ....	...	...	...	1	...	...	...	...	...	...
St. James' Guide .....	...	...	...	...	...	...	...	...	...	...
St. James' Black-a-Moor .....	...	...	...	...	...	...	...	...	...	...
St. John's .....	...	3	2	1	...	...	...	...	...	...
St. Joseph's R.C. ....	3	4	1	1	...	...	...	...	...	...
St. Luke's .....	1	2	1	1	...	...	...	...	...	...
St. Michael's .....	3	1	...	...	...	...	1	...	...	...
St. Matthew's .....	1	4	2	5	...	...	...	...	...	...
St. Mary's R.C. ....	1	1	1	1	...	...	1	2	...	...
St. Paul's .....	...	...	1	1	...	...	...	...	...	...
St. Peter's C.E. ....	2	...	1	2	...	...	...	1	...	...
St. Peter's R.C. ....	...	1	2	6	...	...	1	...	...	...
St. Silas' .....	7	7	1	...	...	...	...	...	...	...
St. Stephen's .....	...	1	...	4	...	...	...	...	...	...
St. Thomas' .....	3	4	1	3	...	...	...	...	...	...
Sacred Heart .....	...	...	1	4	...	...	...	...	...	...
Wensley Fold .....	...	1	2	1	...	...	...	...	...	...
Witton Infants .....	1	...	1	2	...	...	...	...	...	...
	74	99	37	68	...	...	9	9	...	...
Bangor Street O.A.C. ....	...	...	...	...	...	...	...	...	...	...
Girls' High School .....	...	...	...	...	...	...	...	...	...	...
Grammar School .....	2	...	...	...	...	...	...	...	...	...
Park O.A.C. ....	...	...	...	...	...	...	...	...	...	...
Convent of Notre Dame .....	...	3	...	1	...	...	...	...	...	...
Cherry Tree N. ....	...	1	...	...	...	...	...	...	...	...
Accrington Road O.A.C. ....	...	...	...	...	...	...	...	...	...	...
St. Oswald's, Knuzden .....	1	...	...	...	...	...	...	...	...	...
Regent Street Special .....	...	...	...	...	...	...	...	...	...	...
Roe Lee Park Myope .....	...	...	...	...	...	...	...	...	...	...
Other .....	2	...	...	...	...	...	...	...	...	...
	5	4	...	1	...	...	...	...	...	...

Table 31.

INFECTIOUS DISEASES NOTIFIED BY TEACHERS, SCHOOL  
ATTENDANCE OFFICERS AND OTHERS DURING 1937.

School.	Measles	Whooping Cough	Chicken Pox.	Mumps	Scarlet Fever.	Diphtheria	Erysipelas	Others Influenza Pneumonia	Enceph- alitis, L' thargica
Accrington Road .....	...	...	...	...	1	...	...	...	...
Audley C. ....	...	3	3	...	8	7	...	3	...
Bank Top .....	3	1	15	...	3	9	...	...	...
Bangor Street C. ....	...	...	1	...	...	2	...	...	...
Blakey Moor C. ....	1	...	...	...	1	...	...	...	...
Cedar Street .....	2	17	...	1	3	...	...	1	...
C.E. Central .....	...	...	1	1	2	4	...	...	...
Christ Church .....	79	2	18	1	16	10	...	1	...
Emmanuel .....	4	3	26	1	5	1	...	...	...
Furthergate .....	4	7	1	...	4	...	...	1	...
Four Lanes End .....	...	4	38	...	1	...	...	...	...
Griffin .....	14	2	3	...	6	1	...	...	...
Holy Trinity .....	2	4	4	...	8	2	...	...	...
Intack C. ....	5	23	21	1	8	...	...	...	...
Lower Darwen C. ....	...	...	...	...	1	...	...	...	...
Mill Hill C. ....	1	4	2	...	...	...	...	...	...
Moss Street .....	1	1	1	...	9	3	...	...	...
Park Road .....	3	2	12	1	3	2	...	1	...
Roe Lee Park .....	45	26	1	...	2	...	...	...	...
St. Aidan's .....	3	10	40	...	8	2	...	...	...
St. Alban's R.C. ....	6	18	29	...	10	5	...	3	...
St. Alban's H.G. ....	...	...	...	...	...	...	...	...	...
St. Anne's R.C. ....	12	2	3	...	5	1	...	1	...
St. Andrew's .....	...	6	2	...	1	...	...	...	...
St. Barnabas' .....	4	...	21	...	11	2	...	...	...
St. Bartholomew's .....	26	6	...	...	4	3	...	1	...
St. Gabriel's .....	...	2	1	1	2	1	...	...	...
St. James' C.E. ....	8	23	22	...	...	1	...	...	...
St. James' Guide .....	1	2	...	...	...	...	...	...	...
St. James', Black-a-Moor .....	...	...	...	...	...	...	...	...	...
St. John's .....	9	...	2	...	3	3	...	...	...
St. Joseph's R.C. ....	8	2	2	...	7	2	...	...	...
St. Luke's .....	...	1	8	...	3	2	...	...	...
St. Michael's .....	3	...	...	1	4	...	...	1	...
St. Matthew's .....	4	8	17	...	5	7	...	...	...
St. Mary's R.C. ....	26	2	11	...	2	2	...	3	...
St. Paul's .....	4	9	2	1	...	2	...	...	...
St. Peter's C.E. ....	3	1	...	...	2	3	...	1	...
St. Peter's R.C. ....	11	7	4	1	1	8	...	1	...
St. Silas' .....	23	...	2	...	14	1	...	...	...
St. Stephen's .....	...	5	5	1	1	4	...	...	...
St. Thomas' .....	2	20	2	...	7	4	...	...	...
Sacred Heart .....	...	...	31	2	...	5	...	...	...
Wensley Fold .....	1	1	12	...	1	3	...	...	...
Witton Infants .....	...	1	...	...	1	3	...	...	...
	318	225	363	13	173	105	...	18	...
Accrington Road O.A.C. ....	...	...	...	...	...	...	...	...	...
Park O.A.C. ....	1	...	...	1	...	...	...	...	...
Bangor St. O.A.C. ....	...	...	...	...	...	...	...	...	...
Convent of Notre Dame... ..	...	...	...	...	3	1	...	...	...
Girls' High School .....	...	...	...	...	...	...	...	...	...
Grammar School .....	...	...	...	...	2	...	...	...	...
Cherry Tree N. ....	3	...	1	...	1	...	...	...	...
Regent Street .....	...	...	...	...	...	...	...	...	...
St. Oswald's, Knuzden .....	1	...	1	1	1	...	...	...	...
Roe Lee Myope .....	...	...	...	...	...	...	...	...	...
Other .....	...	...	...	...	2	...	...	...	...
	5	...	2	2	9	1	...	...	...

The arrangements for the control of both notifiable and non-notifiable infectious diseases have been fully described in previous reports.

During the year 12 certificates were issued in respect of schools where the attendance fell below 60% owing to the prevalence of infectious diseases.

During the year a total of 182 notifications of scarlet fever were received in respect of children of school age. The disease was again of a mild type and no deaths occurred amongst school children.

As regards diphtheria, 106 cases occurred amongst school children, the incidence being fairly evenly spread over the year. The disease was of a more severe type than in 1936, and presented a case mortality amongst school children of 5.66%, compared with 1.0% in 1936.

#### IMMUNISATION AGAINST DIPHTHERIA.

During the year 338 children were immunised against diphtheria.

#### VACCINATION.

The number and percentages of children examined at routine inspection and found to be unvaccinated were as follows:—

*Table 32.*

	Number Examined	Number Unvaccinated	Percentage Unvaccinated	Percentage Unvaccinated 1936
Entrants (Boys) .....	667	434	65.0	64.4
„ (Girls) .....	733	456	62.2	58.8
Intermediates (Boys)	509	258	50.7	43.4
„ (Girls)	487	233	47.8	47.2
Leavers (Boys) .....	533	222	41.6	44.8
„ (Girls) .....	510	247	48.4	40.9
Totals .....	3439	1850	53.7	51.5



## Section 4.

### FOLLOWING UP.

When a child is found to be suffering from a physical defect the parents are so notified either verbally or by circular-letter and are advised to secure treatment without delay. A record is kept of all such children, who are then followed up by the School Nurses to ensure that the appropriate treatment is obtained.

*Table 33.*  
THE WORK OF THE SCHOOL NURSES.

	No. 1 District	No. 2 District	No. 3 District	No. 4 District	No. 5 District	Totals
<i>Visits to Schools re Cleanliness :</i>						
Visits to Schools .....	102	113	114	93	112	534
No. of Children Inspected ...	6521	8577	8952	8900	10233	43183
No. of Children found Unclean	1985	1688	1388	1457	1093	7611
No. of Children with Skin Complaints .....	13	5	8	...	...	26
<i>Visits to Schools :</i>						
Infectious Diseases .....	1	2	7	2	1	13
Other Reasons .....	30	30	23	20	26	129
<i>No. of Children Inspected—</i>						
Scarlet Fever .....	...	...	25	...	...	25
Diphtheria .....	...	...	76	88	...	164
Other Infectious Diseases ....	65	70	61	15	64	275
Other Reasons .....	629	419	570	694	965	3277
Total Children Inspected ..	7215	9066	9684	9697	11262	46924
<i>Home Visiting by School Nurses :</i>						
Concerning—						
Uncleanliness .....	23	57	19	18	42	159
Minor Ailments .....	...	21	36	...	3	60
Defects found at Routine Inspections .....	978	933	864	664	999	4438
Totals .....	1001	1011	919	682	1044	4657
<i>No. of Clinic Sessions Attended .....</i>	216	255	262	248	268	1249

Each School Nurse spends one week in five “ on the district ” following up untreated or observation cases in the home or school.

Miss Harris, part-time School Nurse and Health Visitor, does the clinic work but not district work.



## Section 5. TREATMENT.

### CLINICS.

#### THE WORK OF THE SCHOOL CLINICS.

The Local Authority's treatment scheme has been described in previous Reports.

Table 34.

*Summary of work done :—*

	New Cases	Re-visits	Totals	Totals 1936
Visits to—				
Minor Ailments Clinics .....	3398	20389	23787	23081
Inspection Clinics .....	858	664	1522	1596
Dental Clinic .....	6743	3077	9820	10608
Remedial Exercises Clinic ..	416	3323	3739	8287
Ophthalmic Clinic .....	380	765	1145	1304
	11795	28218	40013	44876

During the year 1937, 99 Inspection Clinics were held, to which 858 new cases were referred for examination.

The appended table gives a classification of defects treated at the Minor Ailments Clinic during the year :—

Table 35.  
MINOR AILMENTS.

Complaint.	1936			1937			Comparison with 1936	Cases.
	Cases.	Attend- ances.	Average number of attendanc's per case.	Cases.	Attend- ances	Average number of attendanc' per case. <sup>s</sup>	Attend'ce inc or dec.	
Ringworm—Scalp ..	2	3	1.5	6	32	6.40	+29	+4
Body	2	10	5.0	5	13	2.17	+3	+3
Scabies .....	6	115	1.9	16	78	4.87	—37	+10
Impetigo .....	562	5130	9.13	341	4314	12.65	—816	—221
Other Skin Diseases	491	2928	5.96	772	6001	7.77	+3073	+281
Minor Injuries ....	832	6142	7.38	815	5614	6.89	—528	—17
Verminous Head ....	181	768	4.24	222	892	4.02	+124	+41
„ Body .....	1	2	2.0	...	...	...	—2	—1
Otorrhœa .....	138	2559	18.54	149	2071	13.90	—488	+11
Other Ear Defect or Disease .....	139	527	3.08	82	334	4.07	—193	—57
Blepharitis .....	57	428	7.51	27	204	7.56	—224	—30
Conjunctivitis .....	77	782	10.15	62	525	8.47	—257	—15
Other External Eye Disease ....	140	326	2.33	101	392	3.88	+66	—39
Miscellaneous .....	927	3461	3.73	800	3317	4.15	—144	—127
Totals .....	3555	23181	6.52	3398	23787	7.00	+606	—157

The number of children attending the Minor Ailments Clinic during the year was slightly lower than for 1936, but there has again been a sharp increase in the incidence of all forms of skin disease.

CASES OF SKIN DISEASE ATTENDING MINOR AILMENT CLINIC,  
1928—1937.

	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937
Impetigo .....	562	516	475	530	450	387	227	321	562	341
Ring-worm Scalp .....	277	193	131	77	86	58	29	6	2	6
Ring-worm Body .....	111	105	53	27	39	49	27	15	2	5
Scabies .....	9	12	30	19	16	16	9	9	6	16
Other Skin Disease .....	82	99	153	105	164	106	126	240	491	772
Totals .....	1041	925	842	758	755	616	418	591	1063	1140

The appended Table demonstrates the reduction in the last ten years in the exclusions because of impetigo:—

IMPETIGO EXCLUSIONS, 1928—1937.

1928	1929	1930	1931	1932	1933	1934	1935	1936	1937
258	178	194	279	207	73	22	33	121	149

EAR, NOSE AND THROAT.

During 1937, 31 children suffering from complaints of ear, nose or throat were referred to the Oto-Laryngological Department of the Blackburn Royal Infirmary for examination by the Honorary Surgeon, Mr. Wishart, to whom I am greatly indebted.

The cases so referred were 13 of tonsils and adenoids, 3 of septum deviation, 6 of deafness, 1 of nasal sinus infection, 4 of nasal obstruction, and 4 of other conditions. Operation was recommended in 16 cases.

During the year, at routine or special inspections of children found to have some abnormality of the tonsils or adenoids, 173 were referred for operative treatment, 42 were referred for conservative treatment, and 572 for observation only.

*Table 36.*  
(3) VISUAL DEFECTS.

	Number of Defects Dealt With.			NEW CASES.			
				Spectacles Prescribed		Spectacles Obtained.	
	Under the Authority's Scheme.	Otherwise.	Total.	Under Authority's Scheme.	Otherwise.	Under Authority's Scheme.	Otherwise.
Errors of Refraction .....	905	8	913	326	8	308	8
Other Diseases or Defects of the Eyes .....	31	2	33	...	...	...	...
	936	10	946	326	8	308	8

Three hundred and eight children, following refraction at the Eye Clinic for the first time, obtained spectacles. Of these 188 were paid for by the Local Education Authority at a total cost of £68 5s. 3d. Of this sum £51 2s. 9d. was subsequently recovered from the parents.

Mr. Wishart held 81 sessions at the Victoria Street Clinic and examined 936 children, of whom 609 were in need of spectacles, or a change of spectacles, and for whom spectacles were prescribed. Eight other children suffering from refractive errors received appropriate treatment otherwise than under the scheme of the Local Education Authority.

Of the children examined for visual defect 434 were new cases referred for a first examination during the year, and of whom 326 were in need of spectacles and for whom spectacles were prescribed,



The appended Table classifies the results of examination at the Ophthalmic Clinic:—

Table 37.

Defect	NUMBER		PERCENTAGE		Percentage 1936 New Cases
	New Cases	Re- Attend- ances	New Cases	Re- Attend- ances	
EYE DISEASES :					
Blepharitis .....	3	1	27·27	5·00	4·35
Nebulæ (Corneal) .....	4	12	36·37	60·00	78·26
Cataract (Congenital) .....	1	...	9·09	..	14·28
Other Eye Diseases .....	3	7	27·27	35·00	42·86
Phlyctenular Conjunctivitis	...	...	...	...	...
EXAMINED FOR REFRACTIVE ERRORS :					
Emmetropia (Normal Vision)..	31	4	7·14	0·85	4·37
Simple Hypermetropia .....	65	87	14·98	18·47	15·63
Hypermetropic Astigmatism ..	111	154	25·58	32·69	33·12
Mixed Astigmatism .....	50	36	11·53	7·65	12·29
Myopia .....	101	45	23·27	9·55	19·79
Myopic Astigmatism .....	34	45	7·83	9·55	4·17
Strabismus .....	34	90	7·83	9·11	9·17
Over 5 Dioptres .....	8	10	1·84	2·13	1·46
Total .....	434	471			

During the year Mr. Wishart examined 52 children of pre-school age and suffering from squint. Glasses were prescribed in respect of 19 children thus examined, and the remainder received alternative forms of treatment.

#### ROE LEE MYOPE SCHOOL.

Both the mode of selection of children for admission to this school and the educational methods are the same as in previous years.

#### WORK OF THE SCHOOL DENTAL DEPARTMENT.

The appended Table gives particulars of the Dental Treatment of School Children during 1937 :—

	1936		1937
Permanent Teeth Filled .....	4413	...	4675
Temporary Teeth Filled .....	143	...	127
Root Treatments .....	181	...	109
Extractions .....	9354	...	8077
Other Operations .....	1592	...	1287
Totals .....	15683		14275



There is again a decrease in the number of extractions and an increase in the number of fillings.

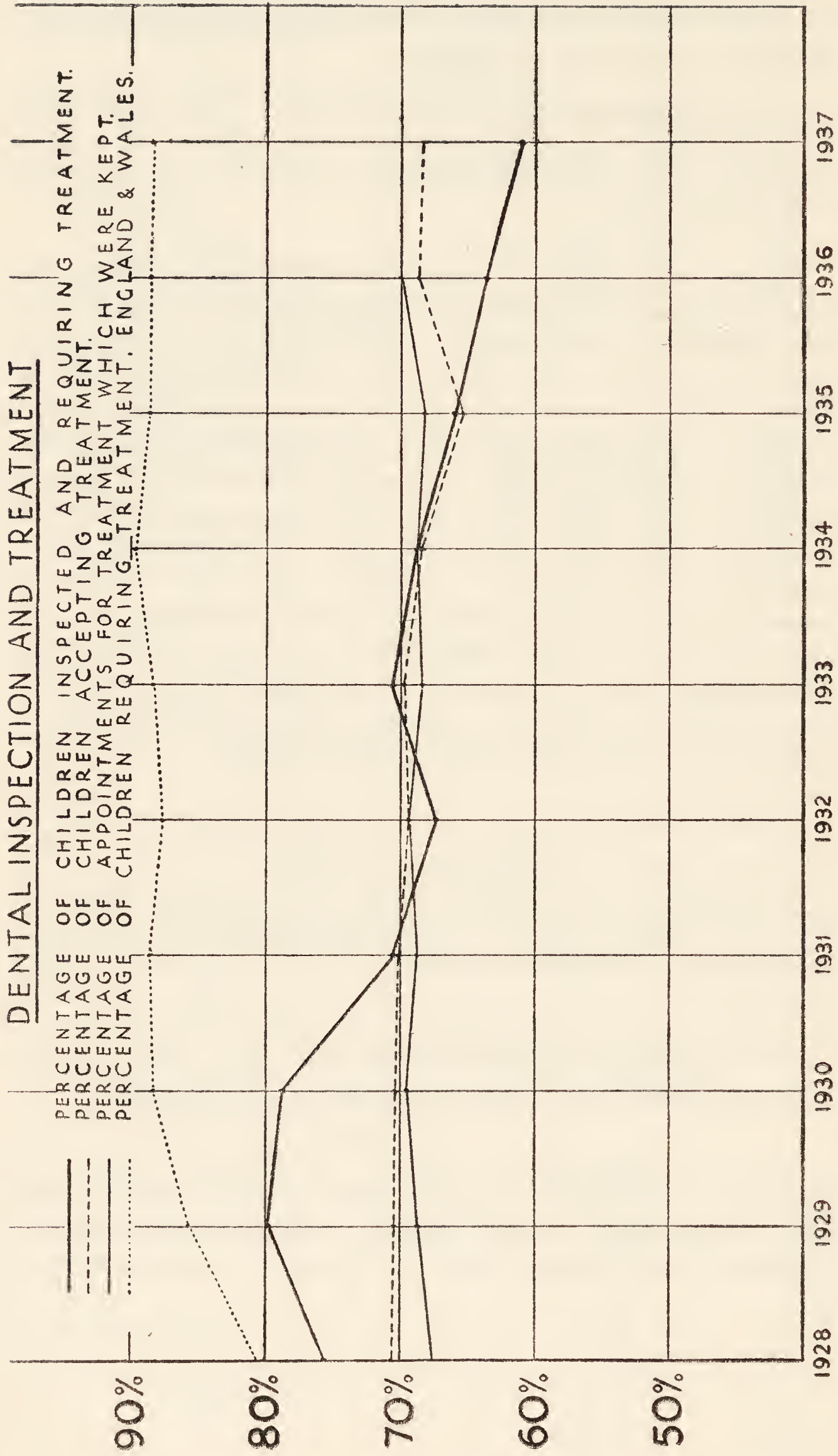
A considerable falling off in the number of "other operations" is occasioned, as in 1936, by fewer scalings having been found necessary, a fact which denotes greater attention by the individual to mouth cleanliness.

There is no doubt that the public is gradually becoming more appreciative of the importance of dental hygiene. To some extent this attitude has been brought about by such direct educational methods as the co-operation of school teachers and the Dental Board. Valuable as are such services, the most profitable form of propaganda is the satisfied patient, the child who has been painlessly and carefully treated. The aim of every dental surgeon should be, and in the case of most surgeons is, to give thorough treatment with minimum pain infliction. By this means only is confidence to be gained. At your Clinics local or general anæsthetics are employed in the case of all extractions, and local anæsthesia is extensively used in other operations which are likely to be painful. As a result children are steadily losing their fear of dentistry, respond more readily to clinic invitations, and, in consequence, show an increasing dental efficiency.

The accompanying graph shows a marked improvement during the last ten years in the hygiene of mouths inspected and justifies the expenditure on your dental service. The increase in the number of children found to require treatment during the year 1929 was due to the fact that during that year all children attending Central Schools were brought into the scheme, and a high proportion of them were found to need treatment. Thereafter the percentage of children requiring treatment declined until 1933, when a slight increase occurred, for which I can offer no explanation.

At the beginning of 1935 a third Dental Surgeon was appointed, and the scheme was extended to include entrants, since when all elementary school children have been covered by the scheme and now undergo dental inspection every twelve months.

# DENTAL INSPECTION AND TREATMENT



Your dental scheme is now reasonably complete and is capable of extension in only two directions, namely, the routine inspection and treatment of all secondary school children and the provision of additional facilities for the treatment and correction of oral deformity by special fittings coupled, in some cases, with dental operative procedure. The latter form of treatment is undertaken at present by your staff, and, in certain instances, simple corrective apparatus has been made by them and supplied to certain of the children.

The question of the extension of the dental scheme to include Secondary Schools and specific provision for all children needing corrective treatment, warrants your close attention.

Previous to 1928, there was only one Dental Surgeon, and the age groups inspected were 6 to 11 years.

From 1928 to the end of 1934, all children of 6 years and over were inspected, the time between each inspection being approximately 20 months.

It was not until 1929 that all the Central Schools were taken into the scheme.

In January, 1935, following the appointment of a third Dental Surgeon, the scheme was extended to include entrants, thus providing for the whole of the elementary school population, who, at first, were inspected at intervals of 16 months. This interval has now been reduced to one of 12 months.

	1936	1937
*Percentage of Parents present at Inspections	26.4% ...	24.1%
Percentage who refused treatment .....	9.5% ...	9.9%
Percentage with Dental Caries .....	63.9% ...	60.9%
Percentage of Appointments kept .....	88.5% ...	88.2%

\* Only parents of 4, 5 and 6 years age groups are invited.

Once more there is a decline in the number of children with dental caries. The percentage of appointments kept and of refusals of treatment being practically the same as in 1936. Every effort continues to be made to effect a reduction in the latter percentages.



Table 38.

	1936.	1937
Total number of Children Inspected .....	10,634—Routine...	11,829—Routine
Number with Dental Caries .....	6,803—63.9% ...	7,211—60.9%
Number Advised to have Treatment .....	6,803—63.9% ...	7,211—60.9%
Number not requiring Treatment .....	3,831—36.02% ...	4,618—39.03%
*Number of Parents present at Inspections	824—26.4% ...	625—24.1%
Number of Consents for Treatment at Clinic	4,685—68.8% ...	4,924—68.2%
Number who prefer Private Treatment ...	410—6.02% ...	308—4.2%
Number no Definite Decision .....	1,073—15.7% ...	1,258—17.4%
Number who Refused Treatment .....	635—9.5% ...	721—9.9%

\*Only parents of the 4, 5 and 6 year groups are invited to inspections.

Table 39.

REFERRED FOR TREATMENT—AGE GROUPS.

Sex	4 yrs.	5 yrs.	6 yrs.	7 yrs.	8 yrs.	9 yrs.	10 yrs.	11 yrs.	12 yrs.	13 yrs.	14 yrs.	15 yrs.	Tot'l
B ...	174	272	307	414	450	460	452	426	399	279	29	16	3678
G ...	169	288	372	404	463	446	469	343	317	234	22	6	3533
Tot'ls	343	560	679	818	913	906	921	769	716	513	51	22	7211



Table 40.  
TREATMENT.—AGE GROUPS.

Sex.	4 years.		5 years.		6 years.		7 years.		8 years.		9 years.		10 years.		11 years.		12 years.		13 years.		14 years.		15 years.		Totals.		
	Routine.	Casuals.	Routine.	Casuals.	Routine.	Casuals.	Routine.	Casuals.	Routine.	Casuals.	Routine.	Casuals.	Routine.	Casuals.	Routine.	Casuals.	Routine.	Casuals.	Routine.	Casuals.	Routine.	Casuals.	Routine.	Casuals.	Routine.	Casuals.	
Boys ...	54	99	129	141	194	146	231	106	317	112	304	97	310	100	267	89	229	80	224	58	41	22	13	4	2313	1054	3367
Girls ...	45	97	141	157	199	154	248	117	305	124	301	111	274	100	257	66	212	71	228	59	38	22	34	16	2282	1094	3376
Total ...	99	196	270	298	393	300	479	223	622	236	605	208	584	200	524	155	441	151	452	117	79	44	47	20	4595	2148	6743

Table 41  
DENTAL TREATMENT.

	Number of Half-days Devoted to Inspection.	Number of Half-days Devoted to Treatment.	Total Number of Attendances made by Children at the Clinic.	No. of Perma'nt Teeth		No. of Temp'ary Teeth		Total Number of		No. of Administrations of General Anæsthetics.	No. of Administrations of Local Anæsthetics.	No. of other operations.				Root Treatments.	X-Ray.
				Extracted.	Filled.	Extracted.	Filled.	Extractions.	Fillings.			Perm. Dress.	Perm. Scale.	Temp. Dress.	Temp. Scale.		
Routine ....	134	1188	7672	8794551	4783	97	56624648	...	2969	307	553	12	2	109	92		
Specials ....	...	...	2148	457	1241958	30	2415	154	1711	176	9	16	11	...	...		
Total	134	1188	9820	13364675	6741	127	80774802	...	4680	483	562	28	13	109	92		

	1936.	1937.
Appointments to attend the Clinic were made to the number of ...	9,595	8,691
The number of appointments kept was .....	8,492—88.5%	7,674—88.3%
The number of mouths made healthy was .....	4,660—Routine } Total 4,595—Routine } Total 2,116—Casuals } 6,776 2,148 Casuals } 6,743	
Orthodontia Cases .....	126 (1936—175), for which cases 104 permanent teeth and 32 temporary teeth were extracted and 20 appliances were supplied.	

## 1. Number of Children who were :

(a) Inspected by the Dentist.	1936	1937
Aged 4 .....	1,139	1,404
Aged 5 .....	965	1,181
Aged 6 .....	1,014	1,153
Aged 7 .....	1,065	1,222
Aged 8 .....	1,019	1,316
Aged 9 .....	1,005	1,338
Aged 10 .....	1,151	1,279
Aged 11 .....	1,159	1,076
Aged 12 .....	1,173	1,057
Aged 13 .....	808	712
Aged 14 .....	111	63
Aged 15† .....	25	28
Specials .....	2,116	2,148
	<hr/> 12,750	<hr/> 13,977
(b) Found to Require Treatment .....	8,919	9,159
(c) Actually Treated .....	6,767	6,743
2. Half Days devoted to Inspections .....	144	134
Half Days devoted to Treatments .....	1,184	1,188
Total .....	<hr/> 1,328	<hr/> 1,322
3. Attendances made by Children for Treatment ...	10,608	9,820
4. Fillings. Permanent Teeth .....	4,413	4,675
Temporary Teeth .....	143	127
Total .....	<hr/> 4,556	<hr/> 4,802
5. Extractions. Permanent Teeth .....	1,637	1,336
Temporary Teeth .....	7,717	6,741
Total .....	<hr/> 9,354	<hr/> 8,077
6. Administrations of General Anæsthetics		
7. Other Operations. Permanent Teeth .....	1,544	1,246
Temporary Teeth .....	48	41
Total .....	<hr/> 1,592	<hr/> 1,287

## Section 6.

### SPECIAL SCHOOLS AND CLASSES.

#### THE RESIDENTIAL SCHOOL FOR PHYSICAL DEFECTIVES.

The arrangements for the care of physically defective children at the Queen's Park Hospital School have been described in previous Reports.

During the year 158 cases were admitted from the County Borough, in addition to 34 who were in residence at the end of 1936; 41 children remained in the Hospital and School at the end of 1937.

Such children as are in need of surgical treatment are operated on by Mr. Briggs, the Consultant Surgeon to the School. During the year 19 such cases were dealt with.

I append a Table which classifies the defects of children admitted during the year.

<i>Defect.</i>	
Non-Pulmonary Tuberculosis .....	5
Pulmonary Tuberculosis .....	1
Bronchitis, etc. ....	8
Debility .....	3
Bone Injury .....	5
Congenital Deformities .....	8
Rheumatism .....	3
Paralysis .....	1
Epilepsy .....	6
Chorea .....	10
Other Conditions .....	108

#### NURSERY CLASSES.

There are 29 Nursery Classes in the Borough with accommodation for a total of approximately 900 children between the ages of 5 and 3 years.

Inspection findings of children in attendance at these classes are incorporated in the "entrant group" of code examinations.

As these inspections are undertaken by the medical officers of the Child Welfare Centres there is complete continuity with the Child Welfare Scheme.



Each Nursery Class is visited at least once in each fortnight by the School Nurse in whose district the class is situated.

The Time-Table is as described in previous reports.

## TREATMENT OF OTHER DEFECTS.

### (1) DEFORMITIES.

#### SPECIAL ORTHOPAEDIC CLINIC.

During 1937, 38 Inspection Clinics were held by the Orthopaedic Surgeon, at which 272 patients made 575 attendances, an increase of 55 patients and of 67 attendances over those in 1936.

Some of the children examined by the Surgeon are referred by him for treatment either at the Remedial Exercise Clinic or at the Queen's Park Hospital. Those who do not require active treatment attend the Clinic at regular intervals for observation, advice, and the periodical adjustment of splints and appliances.

Splints and special appliances have been supplied to necessitous cases through the generosity of the Crippled Children's Aid Society, who have also made arrangements for admission to Queen's Park Hospital of children requiring operative or other special treatment.

*Table 42*

#### ORTHOPAEDIC CLINIC.

No. of Inspection Sessions .....	38
„ Attendances .....	575
„ Patients attended .....	272
„ Patients of School Age Admitted .....	74
„ Patients under School Age Admitted .....	57
„ Patients over School Age Admitted .....	5
„ Patients referred for X-ray .....	46
„ Patients referred for Special Appliances, Boots, etc.	66
„ Patients referred for Admission to Queen's Park Hospital .....	28
„ Patients referred for admission to Blackburn Royal Infirmary for Operation .....	3
„ Patients referred for Admission to Corporation Hospital .....	—

Table 43.

CLINIC ATTENDANCES.

	REMEDIAL EXERCISES				ELECTRICAL TREATMENT.				ORTHOPÆDIC INSPECTION.				ORTHOPÆDIC OBSERVATION.			
	School.	Not School.	Attendances.	Number of cases.	School.	Not School.	Attendances.	Number of cases.	School.	Not School.	Attendances.	Number of cases.	School.	Not School.	Attendances.	Number of cases.
Breathing exercises .....	255	4	922	16	..	..	..	..	..	..	..	..	..	..	..	..
Slight postural defects	67	...	336	..	..	..	..	..	..	..	..	..	..	..	..	..
Spinal Curvature .....	21	..	511	..	..	..	..	19	53	..	..	15	42	..	..	..
Infantile paralysis .....	6	1	317	25	3	54	..	13	50	..	..	8	23	..	..	48
Birth injuries .....	15	2	448	62	1	33	..	22	46	..	6	22	44	3	8	..
Congenital dislocations	1	...	21	..	..	..	..	3	6	..	..	7	16	..	..	..
Pes cavus & planus .....	28	...	539	..	1	19	..	29	54	3	5	24	35	..	..	..
Rickets .....	6	1	137	17	..	..	..	94	177	59	106	36	60	31	40	..
Other .....	6	5	180	27	..	..	..	29	60	37	71	24	57	33	63	..
Nil abnormal diagnosed	...	...	...	..	..	..	..	5	9	7	13	3	3	4	6	..
T. B. joints .....	4	6	112	64	..	..	..	9	50	13	36	15	53	17	43	..
Talipes .....	3	7	177	82	1	53	..	11	57	12	25	5	23	7	23	..
Result of accident .....	4	...	39	..	..	..	..	13	27	..	..	18	36	..	..	..
	416	26	3739	293	6	159	...	247	589	134	262	177	392	95	183	..

## PHYSICAL TRAINING.

The year 1937-8 has seen further progress in the teaching of all branches of Physical Education. This subject has begun to take its appropriate position in the schools' general curriculum, but much requires still to be done to establish it fully and to maintain it.

The provision of apparatus for work on the Board of Education 1933 Syllabus has been further increased, and all schools not having adequate storage facilities have been supplied with gymnastic apparatus boxes or cupboards specially designed to house the apparatus issued. The portable apparatus required by Senior Schools has been supplied wherever it has been possible, but in this connection several schools have been unable to avail themselves of it, due to lack of, or, in some cases, complete absence of, the necessary room. Two such schools have been temporarily housed in gymnasias for part, at least, of their physical training lessons. Furthermore, in the Senior Schools, it has been found possible to appoint three specialist teachers for the physical education in the schools concerned.

One Junior Mixed and two Senior Mixed Schools have been supplied with gymnastic shorts and vests, while in each of these schools, plans are being drawn up for additional changing accommodation and showers. Specially ventilated clothes lockers have already been supplied.

The question of footwear has again come under careful consideration, and it was found desirable to provide all children of school age with gym. shoes as apart from only the necessitous cases. This has been done, and schools have been fitted with shoe containers which enables each child to use the same pair of shoes each P.T. lesson. This also facilitates distribution and supervision, with the consequent saving of time.

Wherever the surface and size permits, playgrounds have been marked for physical training and games, and this has helped considerably in the pupils' enjoyment and the taking of the class.

The results in Swimming have continued to improve, and more "class instruction" has been aimed at, while teachers have shown themselves to be very willing to aid the Swimming Instructors in



obtaining the good results. Teachers' Courses in Swimming have been held and were well attended.

The organised games of the schools still leave much to be desired, due to lack of good grounds and the fact that those already in use are well on the outskirts of the town and require, in order to use them efficiently, a comprehensive scheme of transport. Furthermore, the grounds have irregular surfaces, and in some cases lack adequate changing accommodation and showers. One ground, however, has this year been drained and levelled, and a good pavilion, complete with shower accommodation, erected.

In the Evening Institutes, further classes of Recreational Physical Training have been formed and have been well attended. Evening Classes for young men and women and adults have been held at the Harrison Gymnasium on three nights a week for men and two for women. The number of attendances at these classes steadily increased, and the modern apparatus which has just been installed has been much appreciated and well used.

### POSTURAL DEFECTS.

In my last Annual Report I referred to the ever-increasing volume of work falling upon the Remedial Exercises Department. Much of this work was such as could be carried out in the course of ordinary physical training in the school provided that an additional physical training organiser was available to train and then co-operate with the teachers conducting the proposed classes.

This matter was reported to the Education Committee, who then appointed an additional qualified teacher of both remedial and educational gymnastics to supervise the class treatment of postural deformities in the schools and to assist generally in the Council's remedial exercises scheme.

The Physical Training Organisers approached teachers in several of the schools with a view to the formation of postural classes, and the teachers concerned reacted with enthusiasm to the suggestion.

A special survey was carried out of the children at Cedar Street School, and the first class, largely in the nature of an experiment, was formed there. The venture has been justified, and, as a result, classes are now being conducted in four other schools, viz., Accrington Road, Holy Trinity, Intack and St.



Luke's. It is hoped that, by the end of the present year, the scheme will be extended to many other schools where there is suitable accommodation.

Boys and girls specially selected by a medical officer are taken separately in classes of approximately fifteen children. Each class is held twice a week, is of twenty minutes' duration, and is supplementary to routine physical training, and special attention is being paid to the nutrition of all children attending the classes. The scheme possesses many advantages, amongst which are the saving of school attendances by carrying out treatment in the schools instead of at the Clinic, and freeing your remedial gymnasts from the treatment of minor postural defects and thereby enabling them to devote more time to individual and specialised forms of treatment.

#### OPEN-AIR EDUCATION.

The facilities for open-air education have been fully described in previous reports.

Table 44.

	On register 31/12/36	Admitted in 1937	Dis- charged in 1937	On register 31/12/37	Av. duration of attend'nces of those discharged	Av. increasc in weight of those discharged
SCHOOLS— <i>Non-Residential</i> Corporation Park .....	49	32	35	46	Weeks 92·7	13·2 lbs.
CLASSES :						
Accrington Road .....	27	13	13	27	95·5	12·1 lbs
Bangor Street .....	27	13	14	26	105·7	12·15lbs.
Totals .....	54	26	27	53	100·6	12·1 lbs.
Grand Totals .....	103	58	62	99	96·6	12·6 lbs.

#### ULTRA-VIOLET LIGHT TREATMENT.

A total of 151 school children underwent ultra-violet light treatment at either the Corporation Hospital or Victoria Street Centres and received a total of 3,930 exposures.

Of 97 children discharged during the year, 40.2% were cured, 34.2% were improved, and 25.6% showed no change. As in previous years, the majority of the children in the latter group failed to complete the course of treatment or were discharged on account of irregular and spasmodic attendance.

Table 45.

SUMMARY OF CLINIC ATTENDANCES.

ATTENDANCES :

	Minor Ailments	Ophthalmic Clinic	Inspection Clinic	Dental Clinic	Remedial Exercises	Nose and Throat	Total
1920	1012	407	3433	...	...	...	4852
1921	8527	1287	2995	1658	256	159	14984
1922	10801	959	1806	2801	679	99	17145
1923	11264	666	1465	3886	773	251	18305
1924	17143	692	1407	3593	1699	362	25256
1925	22426	743	1818	4900	2848	111	32846
1926	23185	1147	1101	5036	2595	357	33421
1927	24331	1229	1113	3366	4513	265	34817
1928	19562	1239	1028	7604	7776	333	37542
1929	19148	1223	1548	4816	8483	439	35657
1930	18836	1175	1835	5646	9563	713	37768
1931	22699	1236	1459	5402	9514	806	41116
1932	28496	1253	1594	8106	9602	1088	50139
1933	29231	1141	1963	8359	8800	581	50075
1934	19235	1313	1684	8615	8170	448	39465
1935	20585	1077	1698	11389	8181	404	43334
1936	23081	1304	1596	10608	8287	565	45441
1937	23787	1145	1522	9820	3739	490	40503

Table 46.

SPEECH DEFECTS.

REMEDIAL SPEECH CLASS.

	Stammerers	Lispers	Cleft Palate	Others	Total
No. on register at beginning of the year .....	31	5	7	...	43
No. admitted during the year .....	13	13	1	2	29
No. discharged or left during the year .....	21	4	4	...	29
No. in attendance at end of the year	23	14	4	2	43

## RESULT OF TREATMENT OF CHILDREN DISCHARGED DURING THE YEAR.

	Stammerers	Lispers	Cleft Palate	Others	Total
Cured .....	4	3	...	...	7
Much improved ....	11	1	3	...	15
Slight improve- ment .....	3	...	...	...	3
Condition unchg'd. Left town, etc. ....	3	...	1	...	4
Total .....	21	4	4	...	29

The classes for children suffering from various speech defects are held daily, except Wednesday, in Barton Street School. Miss Drummond is in charge and devotes each Wednesday to visiting the homes and schools of the children attending. In June, classes were started for lispers and children with cleft palate, nasal speech and other forms of defective articulation.

Each child attends twice weekly, the classes lasting approximately one hour; of the 16 periods in the week, 10 are devoted to the treatment of stammering, 4 to nasal and cleft palate speech, and 2 for lipping. Eighty-eight children have been in attendance; the number on the rolls at the end of the year was 43; these included 23 stammerers, 4 cleft palate cases, 14 lispers, and 2 with other speech defects.

The stammerers again showed marked improvement, and 12 obtained situations; many of these return from time to time to report progress.

The lispers have all shown a very satisfactory response, and 3 are quite cured.

Of four cleft palate cases discharged during the year, three showed great improvement in speech, and the remaining child showed no change.

### ENURESIS.

The treatment of enuresis, in the absence of any definite physical or environmental cause, presents difficulty. In certain



cases attention to such aggravating conditions as phimosis, thread worms, or faulty home hygiene effect a speedy cure. In others, where there is no obvious underlying cause, the condition is often obstinate to general forms of treatment and remains a cause of distress to the patient and of despair to the medical attendant.

For many years drugs of the belladonna group have been employed in the treatment of this condition, and, whilst not constituting a specific remedy, have been proved of undoubted utility. This group of drugs acts by causing relaxation, and increased capacity of the bladder.

Many of the children affected with enuresis are of the restless and excitable type. This fact, together with the knowledge that the therapeutic value of belladonna is due to its causing relaxation of the bladder, led us to try out the treatment of enuretics at the Relaxation Class. The methods adopted at this class have been described in previous reports dealing with the treatment of stammerers, and similar treatment has been followed in the case of enuretics.

At the time of writing this report nine children have been treated by this method, and their particulars are contained in the following Table :—



Table 47.

Date of Birth	Sex	Duration of Treatment	Result	Remarks	Duration of Complaint
21/9/30	F	10 months	Discharged Cured	A restless child	Always
16/4/29	F	3 months	Discharged Cured	V. nervous child	Three years
9/12/27	F	6½ months	Discharged No Improvement	V. nervous	Always
29/2/28	F	5 months	Discharged No Improvement	Asthmatic	Always
22/11/27	F	4½ months	Discharged No Improvement	Fractural skull aet. 4½ years	Always
20/8/28	M	5 months	Discharged No Improvement	Nervous child Aunt a lunatic	Since 1 yr. of age
4/5/32	M	8 months	Much Improved Still in attendance	Nervous	Since 1 yr. of age
28/9/28	M	5 months	Discharged No Improvement	Nervous	Since birth
3/4/23	M	6 weeks	Discharged Improved	Restless boy	10 years

It will be noted that only two children have been discharged as cured, one (much improved) remains in attendance, and the fourth child left the class (improved) on attaining school-leaving age. The latter, since discharge, has shown further improvement.

The results hoped for have not been attained in the series of nine cases so far treated. The number treated is, of course, too insignificant to justify either optimism or pessimism in the relaxation method, and for that reason it is proposed to continue with further cases before expressing even a tentative opinion as to the efficacy of the treatment.

### TREATMENT OF STRABISMUS.

In the Report for 1936 mention was made of the Committee's intention to appoint, jointly with the Burnley Education Authority, an Orthoptist for service in both areas. The appointment was made in July, but, owing to the difficulty in obtaining the requisite apparatus, the actual treatment of cases did not begin until August.

The Orthoptist, whose time is divided equally between Blackburn and Burnley, has held seventy-four treatment sessions in the Borough at which seventy children made four hundred and fifty-two attendances.

The treatment given consists of exercises, carried out by means of special apparatus, which are designed to strengthen the weakened muscles of the squinting eye and thus correct the squint and at the same time increase visual capacity.

The vision of certain of the cases attending for treatment has been so defective in the squinting eye that exercises could not at first be employed. To improve the vision and enable full advantage to be taken of subsequent exercises, the preliminary treatment consisted of "occlusion." This term denotes patching of the *good* eye by means of a suitable pad, a process which compels use of the bad eye and thereby strengthens muscles which otherwise would become increasingly weakened by disuse. Thirty-three children have been so treated, of whom six improved sufficiently to be transferred for active treatment by means of the Synoptophore.

Thirty-seven children received corrective treatment, other than occlusion, and made three hundred and fifty-six attendances.

So far the results obtained have been satisfactory, although the treatment is so protracted that none of the children have as yet completed the course. For this reason no striking improvements can be recorded as yet.

## Section 7.

### PROVISION OF MEALS.

The arrangements for the provision of meals have been fully described in previous reports.

The meals centres are visited periodically by Medical officers of this Department, and the general arrangements have been found satisfactory.

### CO-OPERATION OF PARENTS.

The presence of parents is encouraged at both School Medical Inspections and at the various Clinics. For the most part the parents have been appreciative of the work of the Department and have followed the advice given by the Staff.

### CO-OPERATION OF TEACHERS.

The work of the School Medical Service has been greatly facilitated in all directions by the Teachers, particularly so as regards the milk in schools scheme. The distribution of milk and the selection of children throws much additional work upon them, and the success of the scheme is due, practically entirely, to their co-operation.

### CO-OPERATION OF THE SCHOOL WELFARE OFFICERS.

Information gained by the School Welfare Officers in the course of their home visits is passed to the School Medical Department and greatly facilitates the work of the staff. Their co-operation in securing attendance of children at the Clinics is most valuable and has done much towards securing treatment of defects discovered at routine medical inspections or reported by the teachers.

### CO-OPERATION OF VOLUNTARY BODIES.

#### THE NATIONAL SOCIETY FOR THE PREVENTION OF CRUELTY TO CHILDREN.

I am indebted to the Honorary Secretary for the particulars below. I would like to express the thanks of the members of the School Medical Staff for the unfailing help rendered by this Society and their Inspector, Mr. King.



Table 48.

CASES REPORTED BY OFFICIALS OF SCHOOL MEDICAL DEPT. ...	40
---	----

*Dealt with as follows—*


---

Warned and supervised .....	34
Admitted to Hospital .....	4
Admitted to Cottage Homes .....	1
Dropped .....	1

## CLASSIFICATION OF COMPLAINTS.

Neglect to provide Glasses or Ophthalmic Treatment .....	11
Neglect to obtain Eye Examination .....	4
Neglect to provide Medical Aid .....	2
Neglect (verminous) .....	2
General .....	21

## THE AFTER-CARE SUB-COMMITTEE OF THE JUVENILE EMPLOYMENT COMMITTEE.

The above Committee have co-operated most closely in furthering the aims of the School Medical Service. The interest taken by the members of the Committee in the after-care of school-leavers has been of the greatest service to the Staff of the Medical Department.

## LICENSING OF CHILDREN FOR ENTERTAINMENTS.

Three troupes of 4 girls and 2 boys in all, residing outside the Borough, were granted permission to take part in entertainments at the Grand Theatre.

The apartments and dressing rooms were inspected by the Chief Welfare Officer and all the children found to be in good health and well cared for.

The Licences, Birth and Medical Certificates were produced in each case, and found to be in order.

Eleven applications were made by Principals of local Schools of Dancing, etc., and permission granted to their pupils to take part in charity performances in the district.

## BLACKBURN CRIPPLED CHILDREN'S AID SOCIETY.

This organisation has again co-operated most usefully with the School Medical Department and has rendered invaluable aid by the provision of splints and appliances for needy children. In addition their services have included the "following up" of crippled children in their homes.

## Section 8.

### BLIND, DEAF, DEFECTIVE AND EPILEPTIC CHILDREN.

Full statistical details regarding blind, deaf, defective and epileptic children will be found in Table III. required by the Board of Education, in the Appendix.

#### BLIND CHILDREN.

One girl is an inmate of the Homes for the Blind, Fulwood, Preston.

Two boys and two girls are inmates of the Catholic Blind Asylum, Liverpool.

Four blind Blackburn persons (3 males and 1 female) are at present undergoing training at the local Workshops for the Blind. On completion of training (the cost of which is borne by the Local Education Authority) these trainees will be found employment by the Blind Persons Act Committee either as home-workers or as workshop employees.

All trainees between the ages of 16 and 20 years, attend two classes per week in general educational subjects. Discussion of current topics forms an important part of the curriculum. In addition, all trainees, irrespective of age, attend three classes in Braille and Moon each week.

The appended Table gives particulars of blind persons resident in the Borough and employed under the Scheme of the Blind Persons Act Committee :—

#### *Workers. Trainees.*

1. Employed at the Blackburn Workshops—			
(a) Knitting Department .....	12	...	1
(b) Brush Department .....	17	...	3
(c) Skip Department .....	6	...	—
2. Employed as Home-Workers .....	3	...	—

#### DEAF CHILDREN.

Three boys and two girls are inmates of the Royal Cross School, Preston; one boy and one girl have been discharged during the year.

One boy is at the Royal Residential School for the Deaf, Old Trafford, Manchester.

At the end of the year two deaf and dumb girls from Blackburn were in the St. John's R.C. Institution for the Deaf and Dumb, Boston Spa, one having been admitted during the year.

## EPILEPTICS.

Two children suffering from severe Epilepsy attend no school, and two are in attendance at ordinary Elementary Schools. One girl is at the Home for Epileptics, Much Hadham.

## MENTALLY DEFECTIVE CHILDREN.

The supervision of mental defectives not attending school is carried out, on behalf of the Mental Deficiency Act Committee, by the Central Lancashire Association for Mental Welfare.

The arrangements were described in the Annual Report for 1933.

From time to time delinquent and difficult children are referred to the School Medical Department for investigation in regard to mental state.

## PARTICULARS WITH REGARD TO REGENT STREET SPECIAL SCHOOL.

The School can accommodate 80 children; at the beginning of 1937 there were 15 children on the School roll, and at the end of the year 13. The following table gives particulars of the present condition of the 294 children discharged from the Regent Street School since the School was opened:—

ANNUAL RETURN OF THE AFTER-CAREERS OF CHILDREN  
FORMERLY ATTENDING SPECIAL SCHOOLS.

		School:	
		Regent Street Special School.	
		Boys.	Girls.
1.	No. of children who have left the school since 1910 or since the date of certification .....	196	98
2.	No. who		
	(a) have since died .....	19	11
	(b) are known to be incapable by reason of mental defect of undertaking employment ...	8	6
	(c) in attendance at an Institution for further education .....	5	2
	(d) are in other Institutions .....	35	14



3.	No. employed in			
	(a) industrial or manual occupations .....	51	.....	24
	(b) agricultural or rural occupations .....	12	.....	—
	(c) domestic occupations (including those who are helping in domestic work at home .....	1	.....	26
	(d) commercial, professional or clerical work.....	8	.....	—
	(e) “blind alley” or precarious occupations ...	17	.....	3
4.	No. who have left the neighbourhood or whose after-careers have not been traced .....	40	.....	12

#### INDUSTRIAL SCHOOLS.

Three boys were in the Wellesley Nautical School, Blyth, Northumberland, at the end of the year, one having been admitted during the year, and one transferred to another school.

There are now four boys from Blackburn at the St. George's R.C. Industrial School, Freshfield, Liverpool. Four boys are at the Axwell Park Industrial School, Newcastle-on-Tyne, one having been admitted during the year. One boy is at the Shadwell Industrial School for Boys, Leeds; two at the Home Office Approved School, St. Helens; two at St. William's Reformatory, Market Weighton, East Yorkshire; two at St. Thomas More R.C. School, West Grinstead, Sussex; one at Liverpool Education Committee's School, Hightown; one at Thorparch Grange Industrial School, Boston Spa; two at St. Joseph's Boys' Certified Industrial School, Longsight, Manchester; one at St. Vincent's R.C. Boys' School, Dartford, Kent; and one at St. Vincent's R.C. School, Liverpool.

One girl is in the Holy Trinity School for Girls, Mile Street, Liverpool, and one girl is in the Northumberland Village Homes, Whitley Bay.

#### PHYSICALLY DEFECTIVE CHILDREN.

Particulars of all exceptional children in the area will be found in Table III. on page 72 of this Report.

## Section 9.

### EMPLOYMENT OF CHILDREN AND YOUNG PERSONS.

Shortly before the school-leaving age is reached juvenile employment cards are completed by the Assistant School Medical Officer, who examined 1,043 children for employment during 1937.

The number of children licensed for employment out of school hours during the year was 236 (232 boys and 4 girls), the majority are engaged in the delivery of milk, newspapers, groceries, etc.

In 28 cases certificates were refused on account of the children being medically unfit.

Table 49.

#### CHIEF CAUSES OF EXCLUSIONS FROM SCHOOL.

Condition	Exclusions carr. fwd. from 1936	1937		Still excluded Dec. 1937	1937 % of total exclusions	1936 % of total exclusions
		Excln's	Returns			
Ringworm—Head .....	1	4	5	..	0·17	0·03
„ Body .....	3	2	5	..	0·08	0·03
Verminous condition ...	8	125	131	2	5·39	2·50
Impetigo .....	25	149	167	7	6·42	3·62
Scabies .....	..	15	15	..	0·65	0·15
Small Pox .....	...	...	...	...	...	...
Scarlet Fever .....	52	337	370	19	14·53	14·23
Measles .....	6	409	406	9	17·63	6·89
Diphtheria .....	19	258	234	43	11·12	4·36
Whooping Cough .....	7	276	279	4	11·90	3·86
Chicken Pox .....	36	374	373	37	16·12	12·78
Mumps .....	..	16	16	..	0·69	43·83
External Eye Disease ...	2	12	13	1	0·52	0·23
Sore Throat .....	..	26	25	1	1·11	0·70
Other Causes .....	32	311	330	13	13·41	6·58
Ear Defects .....	..	6	2	4	0·26	0·21
Total .....	191	2320	2371	140	...	...

The number of exclusions by reason of infectious diseases includes those from the same household who have been excluded as contacts.

## SECONDARY SCHOOLS.

Medical Inspections have been carried out at the Grammar School, the High School for Girls and its preparatory branch at Crosshill, all of which are aided by the Local Education Authority.

Two hundred and thirty-six boys were examined at the Grammar School and 109 children at the Girls' High School and Crosshill. At the High School and Grammar School the pupils are examined as entrants, at the age of 12 years, and also at the age of 15 years; a special inspection embraces those over 15 years of age who are leaving school during the year.

During the year inspections were carried out at Notre Dame High School and St. Mary's Catholic College, 107 girls being examined at the former and 65 boys at the latter.



## SECONDARY SCHOOLS.

Table 50.

RETURN OF DEFECTS FOUND IN THE COURSE OF MEDICAL  
INSPECTION, 1937.

Defect	Males			Females		
	No. requiring Treatment	No. referred for Observation	Percentage of Total	No. requiring Treatment	No. referred for Observation	Percentage of Total
Malnutrition .....	..	1	0.3	..	..	..
<i>Uncleanliness :—</i>						
Head .....	..	..	..	1	..	0.4
Body .....	..	..	..	..	..	..
<i>Skin Disease</i> .....	3	..	1.0	..	..	..
<i>Eye Diseases :—</i>						
Defective Vision .....	22	18	13.2	16	13	13.4
Squint .....	..	1	0.3	..	..	..
External Eye Disease .....	..	..	..	..	..	..
<i>Ear Diseases :—</i>						
Deafness .....	..	2	0.6	5	1	2.8
Otitis Media .....	..	1	0.3	..	..	..
Other Diseases .....	..	..	..	..	..	..
<i>Nose and Throat :—</i>						
Enlarged Tonsils .....	1	14	4.5	9	36	20.8
Adenoids .....	..	..	..	..	2	0.9
Adenoids & Enl. Tonsils .....	..	..	..	..	1	0.4
Others .....	4	2	2.0	..	1	0.4
Enlarged Cervical Glands .....	1	..	0.3	2	3	2.3
<i>Dental Defects</i> .....	43	..	14.3	30	..	13.9
<i>Heart and Circulation :—</i>						
Organic .....	1	5	2.0	..	3	1.4
Functional .....	..	5	1.6	1	1	0.9
Anæmia .....	1	3	1.3	1	1	0.9
<i>Bronchitis</i> .....	..	2	0.6	..	1	0.4
Other Non-Tubercular Pulmonary Disease .....	..	1	0.3	..	..	..
<i>Pulmonary Tuberculosis</i> .....	..	..	..	..	..	..
<i>Non-Pulm. Tuberculosis</i> .....	..	1	0.3	..	..	..
<i>Nervous System Disorders</i> (including Epilepsy, Chorea, etc.) .....	..	3	0.9	..	..	..
Stammering and other Speech Defects .....	1	4	1.6	..	..	..
<i>Deformities :—</i>						
Spinal Curvature .....	2	1	0.9	..	..	..
Pigeon Chest .....	..	..	..	..	..	..
Flat Foot .....	26	1	8.9	9	..	4.2
Others .....	11	3	4.6	7	..	3.2
Other Defects or Diseases ..	3	2	1.6	..	..	..
Totals .....	119	70	..	81	63	..
Total Children Examined ...	301			216		

Table 51.

## FOLLOWING-UP.

## CASES REFERRED FOR TREATMENT AND FOLLOWED UP.

Disease or Defect	Treated.						Not Treated		Total	
	Cured		Improv- ed.		Not Im- proved.					
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Defective Vision	3	11	...	3	...	1	...	7	3	22
Decayed Teeth .	7	11	3	7	...	1	...	4	10	23
Enlarged Tonsils	1	2	1	1	...	...	...	1	2	4
Mouth Breathers	...	...	...	...	...	...	...	...	...	...
Other Nose and Throat .....	...	...	...	...	...	...	...	...	...	...
Chorea .....	...	...	...	...	...	...	...	...	...	...
Ear Defect .....	...	...	1	...	...	2	...	...	1	2
Spinal Curvature	...	...	...	...	...	...	...	1	...	1
Other Deformities	...	2	7	7	6	...	...	6	13	15
Skin Diseases	...	...	...	...	...	...	...	...	...	...
Anæmia .....	...	...	...	...	...	1	...	...	...	1
Speech Defects ..	...	...	3	...	...	...	...	...	3	...
Other Defects ....	...	...	1	...	...	...	...	...	1	...
Total .....	11	26	16	18	6	5	...	19	33	68

Table 52

## CASES KEPT UNDER OBSERVATION.

Disease or Defect	Total		Referred for Treatment		Still to be kept under observat'n		Not for further observation	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Defective Vision	9	9	2	2	3	5	4	2
Enlarged Tonsils	13	25	...	...	4	14	9	11
Rickets .....	...	...	...	...	...	...	...	...
Non.-T.B.								
Lung Defects.	4	...	...	...	1	...	3	...
Heart Defects—								
Organic .....	...	...	...	...	...	...	...	...
Functional ....	...	11	...	...	...	8	...	3
Anæmia .....	2	3	...	3	...	...	2	...
Defective Teeth...	...	...	...	...	...	...	...	...
Other Defects ..	1	4	...	2	...	1	...	1
Enl. Cervical								
Glands .....	...	5	...	2	...	1	...	2
Postural Defects..	2	8	2	5	...	2	...	1
Total .....	31	65	4	14	8	31	18	20

Table 53.

COMPARISON BETWEEN THE RESULTS OBTAINED IN THE ROUTINE  
MEDICAL INSPECTION OF ELEMENTARY AND SECONDARY  
SCHOOL CHILDREN.

(Percentages of Defects).

Condition	Elementary		Secondary	
	M	F	M	F
Uncleanliness—				
Head .....	2·7	25·9	...	0·4
Body .....	1·6	1·1	...	...
Defective Vision .....	8·9	10·5	13·2	13·4
Defects of Nose and Throat .....	28·9	32·3	6·5	22·5
Circulatory System Defects .....	12·7	12·4	4·9	3·2
Pulmonary System Defects (Non-Tubercular) .....	4·5	4·6	0·9	0·4
Ear Disease and Deafness .....	1·6	1·7	0·9	2·8
Dental Defects .....	23·8	24·4	14·3	13·9
Skin Diseases .....	2·3	1·6	1·0	...

### HEALTH PROPAGANDA.

During the year medical officers on your staff have addressed many children on health matters.

In addition, lectures on mothercraft and hygiene have been given by the Health Visitors to elder girls in attendance at the Central Schools.

Blackburn Head Teachers take a great interest in health matters and, in consequence, hygiene talks play an important part in the normal educational curriculum.

### PAYMENTS.

Parents of children attending Public Elementary and Central Schools contribute (according to their means) towards the cost of provision of spectacles. Payment for other forms of treatment is under consideration by the Education Committee.



Treatment is not generally available for pupils attending Blackburn Secondary Schools, although Scholarship children may, at the discretion of the Education Committee, receive free treatment under the Local Education Authority's Scheme.

## EXAMINATION OF SCHOLARSHIP CANDIDATES.

There is no routine examination of scholarship candidates. Children awarded Eli Heyworth, Daniel Thwaites, Peel, J. E. Fielding or Leyland Foundation Scholarships are medically examined before higher education is begun.

## DEATHS OF SCHOOL CHILDREN, 1937.

Diphtheria .....	6
Non-Pulmonary Tuberculosis .....	3
Heart Disease .....	—
Pneumonia .....	3
Accidents .....	6
Other Diseases .....	4
Rheumatism .....	4
Appendicitis .....	1
Whooping Cough .....	1
Meningitis .....	3
Epilepsy .....	1

## STATEMENT OF THE NUMBER OF CHILDREN NOTIFIED DURING THE YEAR ENDED 31ST DECEMBER, 1937, BY THE LOCAL EDUCATION AUTHORITY TO THE LOCAL MENTAL DEFICIENCY AUTHORITY.

Total number of children notified ..... 7

### ANALYSIS OF THE ABOVE TOTAL.

<i>Diagnosis.</i>	<i>Boys.</i>	<i>Girls.</i>
1. (i) Children incapable of receiving benefit or further benefit from instruction in a Special School:		
(a) Idiots .....	—	1
(b) Imbeciles .....	4	—
(c) Others .....	1	—

(ii) Children unable to be instructed in a Special School without detriment to the interests of other children:

(a) Moral Defectives .....	—	...	—
(b) Others .....	—	...	—
2. Feeble-minded children notified on leaving a Special School on or before attaining the age of 16.....	—	...	—
3. Feeble-minded children notified under Article 3, <i>i.e.</i> , “special circumstances” cases .....	—	...	—
4. Children who in addition to being mentally defective were blind or deaf .....	—	...	—
	—		—
GRAND TOTAL .....	5	...	1
	—		—

## Returns for the Board of Education of Work done during 1937.

TABLE I.

### MEDICAL INSPECTIONS OF CHILDREN ATTENDING PUBLIC ELEMENTARY SCHOOLS.

#### RETURN OF MEDICAL INSPECTIONS.

##### A.—*Routine Medical Inspections.*

Number of Inspections in the prescribed Groups—

Entrants .....	1400
Second Age Group .....	996
Third Age Group .....	1043
Total .....	3439

Number of other Routine Inspections .....	—
Grand Total .....	3439

##### B.—*Other Inspections.*

Number of Special Inspections .....	6602
Number of Re-Inspections .....	7172
Total .....	13774

##### C.—*Children Found to Require Treatment.*

Number of individual children found at Routine Medical Inspection  
to Require Treatment (excluding Uncleanliness  
and Dental Diseases).

	For defective vision, excluding squint.	For all other conditions recorded in Table IIa.	Total.
Prescribed Groups—			
Entrants .....	5	228	208
Second Age Group .....	74	198	261
Third Age Group .....	105	278	326
Total (Prescribed Groups)	184	704	795
Other Routine Inspections .....	...	...	...
Grand Total .....	184	704	795



TABLE II.

A.—RETURN OF DEFECTS FOUND BY MEDICAL INSPECTION IN THE  
YEAR ENDED 31ST DECEMBER, 1937.

Defect or Disease.  (1)	Routine Inspections,		Special Inspections,	
	No. of Defects,		No. of Defects,	
	Requiring treatment.  (2)	Requiring to be kept under observation but not requiring treatment.  (3)	Requiring treatment.  (4)	Requiring to be kept under observation but not requiring treatment.  (5)
<b>SKIN.</b>				
Ringworm : { Scalp .....	7	...	4	...
{ Body .....	1	...	4	...
Scabies .....	1	...	15	...
Impetigo .....	19	...	328	...
Other Diseases : (Non-Tuberculous) .....	41	...	751	...
TOTAL (Heads 1 to 5)	69	...	1102	...
<b>EYE.</b>				
Blepharitis .....	32	...	10	...
Conjunctivitis .....	1	1	61	...
Keratitis .....	...	...	...	...
Corneal Opacities .....	...	...	...	...
Other Conditions (excluding Defective Vision & Squint)	22	...	86	...
TOTAL (Heads 6 to 10)	55	1	157	...
Defective Vision (excluding Squint) .....	184	131	112	9
Squint .....	40	6	24	...
<b>EAR.</b>				
Defective Hearing .....	28	20	17	5
Otitis Media .....	39	2	120	1
Other Ear Diseases .....	18	...	69	3
<b>NOSE AND THROAT.</b>				
Chronic Tonsillitis Only .....	83	476	47	47
Adenoids Only .....	5	8	6	5
Chronic Tonsillitis and Adenoids .....	25	29	7	7
Other Conditions .....	39	1	23	1
Enlarged Cervical Glands (Non-Tuberculous) .....	3	10	12	2
Defective Speech .....	52	22	14	2
<b>HEART AND CIRCULATION.</b>				
Heart Disease : { Organic	13	8	6	5
{ Functional	3	149	2	13
{ Anæmia	19	28	13	1

TABLE II.—(Contd.).

Defect or Disease.  (1)	Routine Inspections.		Special Inspections.	
	No. of Defects,		No. of Defects,	
	Requiring treatment. (2)	Requiring to be kept under observation but not requiring treatment. (3)	Requiring treatment. (4)	Requiring to be kept under observation but not requiring treatment. (5)
LUNGS.				
Bronchitis .....	18	91	26	3
Other Non - Tuberculous Diseases .....	...	8	11	1
TUBERCULOSIS.				
Pulmonary :				
Definite .....	1	..	...	...
Suspected .....	...	...	4	2
Non-Pulmonary :				
Glands .....	...	3	3	...
Bones and Joints .....	...	1	1	...
Skin .....	...	...	...	...
Other Forms .....	...	...	...	...
NERVOUS SYSTEM.				
Epilepsy .....	1	...	3	...
Chorea .....	1	3	5	3
Other Conditions .....	5	4	3	...
DEFORMITIES.				
Rickets .....	18	48	...	...
Spinal Curvature .....	6	1	...	...
Other Forms .....	99	36	28	...
Other Defects and Diseases (excluding Uncleanliness and Dental Diseases) .....	89	19	1857	12
TOTAL .....	913	1105	3672	122

TABLE II.—(Contd.).

B.—CLASSIFICATION OF THE NUTRITION OF CHILDREN INSPECTED DURING THE YEAR IN THE ROUTINE AGE GROUPS.

Age-Groups	Number of Children Inspected	A (Excellent)		B (Normal)		C (Slightly subnormal)		D (Bad)	
		No.	%	No.	%	No.	%	No.	%
Entrants .....	1400	263	19.0	906	64.7	212	15.1	15	1.07
Second Age-group .....	996	117	11.7	662	66.4	203	20.4	14	1.4
Third Age-group .....	1043	150	14.4	679	65.1	188	18.0	26	2.5
Other Routine Inspections ..	...	...	...	...	...	...	...	..	...
TOTAL .....	3439	534	15.5	2247	65.3	603	17.5	55	1.6

TABLE III.  
RETURN OF ALL EXCEPTIONAL CHILDREN IN THE AREA.

	At Certified Schools for the Blind.	At Certified Schools for the Partially Blind.	At Certified Schools for the Deaf.	At Certified Schools for the Partially Deaf.	At Certified Schools for Mentally Defective Children.	At Certified Special Schools.	At Public Elementary Schools.	At Other Institutions.	At no School or Institution.	Total.
Blind Children .....	5	17	...	...	...	...	...	...	1	6
Partially Blind Children .....	...	...	...	...	...	...	...	...	...	23
Deaf Children .....	...	...	8	...	...	...	5	...	...	11
Partially Deaf Children .....	...	...	1	...	...	...	5	...	1	7
Mentally Defective Children—Feeble-Minded Children...	...	...	...	...	13	...	12	3	1	29
Epileptic Children—Children Suffering from Severe Epilepsy .....	...	...	...	...	...	1	2	2	2	7
Physically Defective Children—A.—Tuberculous Children	...	...	...	...	...	...	2	1	1	4
I.—Children suffering from Pulmonary Tuberculosis...	...	...	...	...	...	...	...	...	...	...
II.—Children suffering from Non-pulmonary Tuberculosis...	...	...	...	...	...	1	20	2	3	26
B.—Delicate Children .....	...	...	...	...	...	3	162	1	2	168
C.—Crippled Children .....	...	...	...	...	...	5	38	2	10	55
D.—Children with Heart Disease .....	...	...	...	...	...	...	10	...	3	13
Children Suffering from Multiple Defects—	...	...	...	...	...	...	...	...	...	...
Feeble-minded and Cripple .....	...	...	...	...	...	...	1	...	...	1
Cripple—Epileptic .....	...	...	...	...	...	...	...	...	1	1
Feeble-minded—Epilepsy .....	...	...	...	...	...	...	2	1	...	3
Non-pulmonary Tuberculosis—Deaf .....	...	...	...	...	...	...	1	...	...	1



TABLE IV.

RETURN OF DEFECTS TREATED DURING THE YEAR ENDED  
31ST DECEMBER, 1937.

## Treatment Tables.

Group I.—MINOR AILMENTS (excluding Uncleanliness, for which  
see Table VI.).

Disease or Defect,  (1)	No. of Defects treated or under treatment during the year.		
	Under the Authority's Scheme (2)	Otherwise (3)	Total (4)
SKIN—			
Ringworm—Scalp			
(i.) X-Ray Treatment .....	4	...	4
(ii.) Other .....	2	...	2
Ringworm—Body .....	5	...	5
Scabies .....	16	...	16
Impetigo .....	341	...	341
Other Skin Diseases .....	772	...	772
MINOR EYE DEFECTS—			
(External and other, but Exclud- ing cases falling in Group II.)....	190	...	190
Minor Ear Defects .....	231	...	231
MISCELLANEOUS			
(e.g., Minor Injuries, Bruises, Sores, Chilblains, etc.) .....	1615	...	1615
Total .....	3176	...	3176

TABLE IV.—(Contd.).

Group II.—DEFECTIVE VISION AND SQUINT (excluding Minor Eye Defects treated as Minor Ailments—Group I.).

Disease or Defect.	Number of Defects dealt with.		
	Under the Authority's Scheme.	Other-wise.	Total.
1)	(2)	(3)	(4)
Errors of Refraction (including Squint). (Operations for Squint should be recorded separately in the body of the Report.)	905	8	913
Other Defect or Disease of the Eyes (excluding those recorded in Group I)...	31	2	33
Total .....	936	10	946

Total number of children for whom spectacles were prescribed :

(a) Under the Authority's Scheme (First Examination)	326
Glasses changed .....	283
(b) Otherwise .....	8
Total .....	617

Total number of children who obtained or received spectacles :

(a) Under the Authority's Scheme (First Examination)	308
(b) Otherwise .....	8
Total .....	316

Group III.—TREATMENT OF DEFECTS OF NOSE AND THROAT.

NUMBER OF DEFECTS.				
Received Operative Treatment			Received other forms of treatment	Total Number treated
Under the Authority's Scheme, in Clinic or Hospital	By Private Practitioner or Hospital, apart from the Authority's Scheme	Total		
(1)	(2)	(3)	(4)	(5)
*303	*8	*311	98	409

\*Tonsils and adenoids.

TABLE IV.—(Continued.)

## Group IV.—ORTHOPAEDIC AND POSTURAL DEFECTS.

	Number of children treated.
UNDER THE AUTHORITY'S SCHEME—	
Residential treatment with education .....	15
Residential treatment without education .....	6
Non-residential treatment at an orthopaedic clinic .....	177
OTHERWISE—	
Residential treatment with education .....	—
Residential treatment without education .....	—
Non-residential treatment at an orthopaedic clinic .....	—
Total number treated .....	198

TABLE V.—DENTAL INSPECTION AND TREATMENT.

## (1) Number of children inspected by the Dentist—

	Age.	Number.
(a) Routine age-groups	4 .....	1404
	5 .....	1181
	6 .....	1153
	7 .....	1222
	8 .....	1316
	9 .....	1338
	10 .....	1279
	11 .....	1076
	12 .....	1057
	13 .....	712
	14 .....	63
	15 .....	28
Total .....		11829
(b) Specials .....		2148
(c) TOTAL (Routine and Specials) .....		13977
(2) Number found to require treatment .....		9159
(3) Number actually treated .....		6743



(4)	Attendances made by children for treatment .....	9820
(5)	Half-days devoted to:    Inspection ...    134 Treatment ...    1188	} Total ...    1322
(6)	Fillings:            { Permanent Teeth ... 4675 { Temporary Teeth ...    127	} Total ...    4802
(7)	Extractions:        { Permanent Teeth ... 1336 { Temporary Teeth ... 6741	} Total ...    8077
(8)	Administrations of general anæsthetics for extractions...	Nil.
(9)	Other operations: { Permanent Teeth ... 1246 { Temporary Teeth ...    41	} Total ...    1287

Group VI.—UNCLEANLINESS AND VERMINOUS CONDITIONS.

i.	Average number of visits per school made during the year by the School Nurses .....	11
ii.	Total number of examinations of children in the Schools by School Nurses .....	43183
iii.	Number of individual children found unclean .....	7611
iv.	Number of children cleansed under arrangement made by the Local Education Authority .....	—
v.	Number of cases in which legal proceedings were taken:	
	(a) Under the Education Act, 1921 .....	—
	(b) Under School Attendance Byelaws .....	6



